



Columbia University  
Bulletins of Information

BARNARD COLLEGE

CATALOGUE

1902-1903

ANNOUNCEMENT

1903-1904



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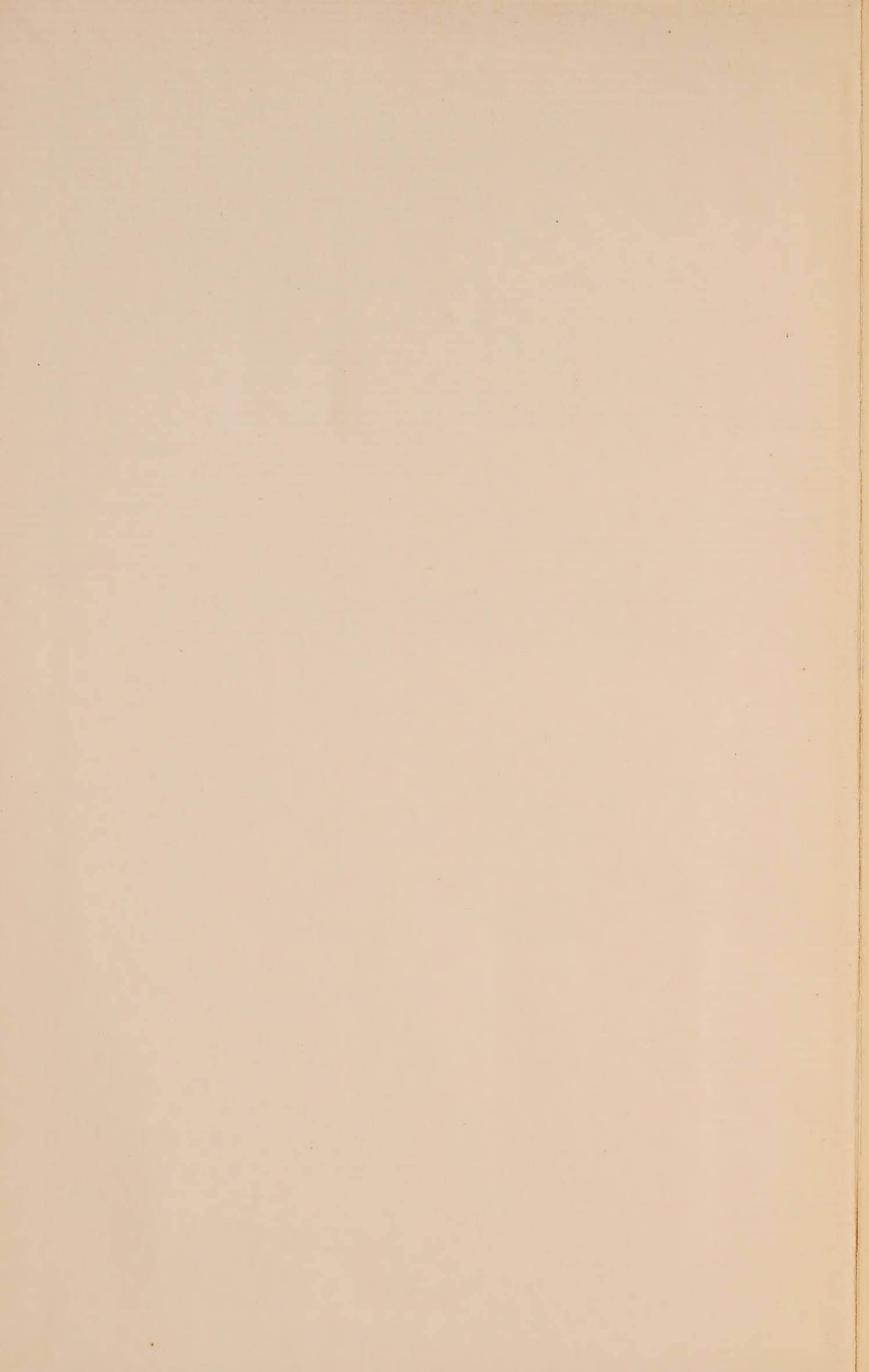
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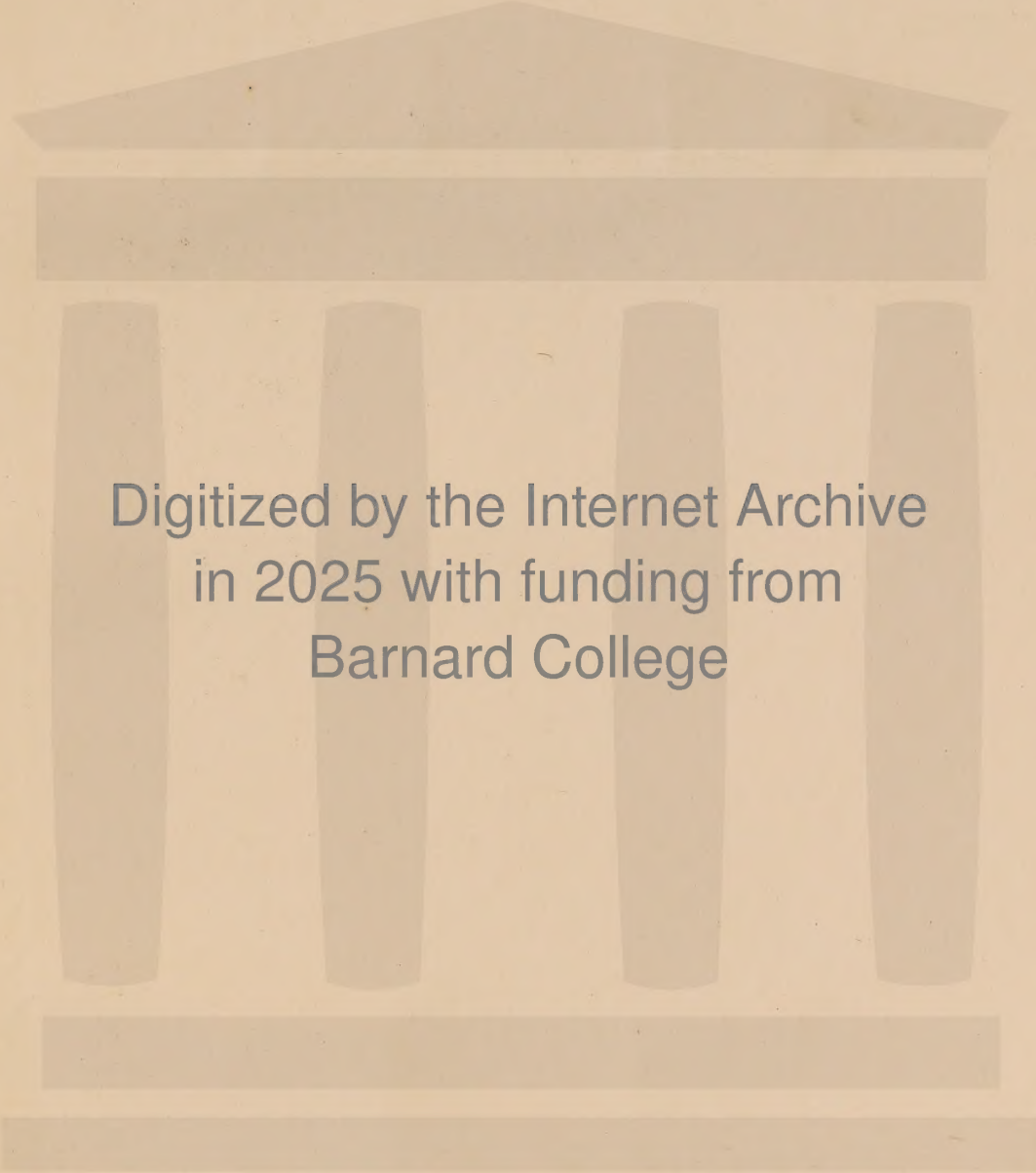
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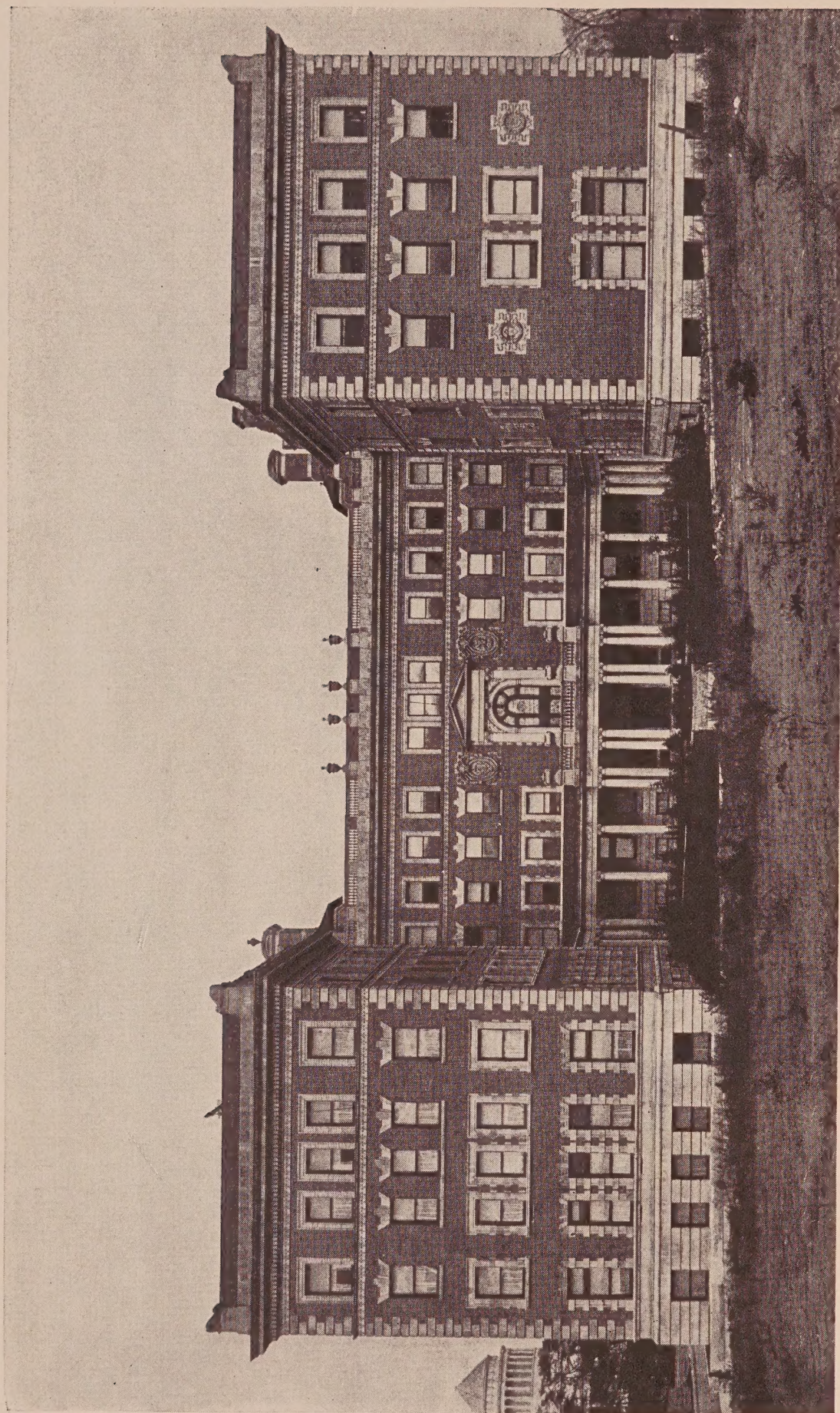






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Columbia University  
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BARNARD COLLEGE

CATALOGUE

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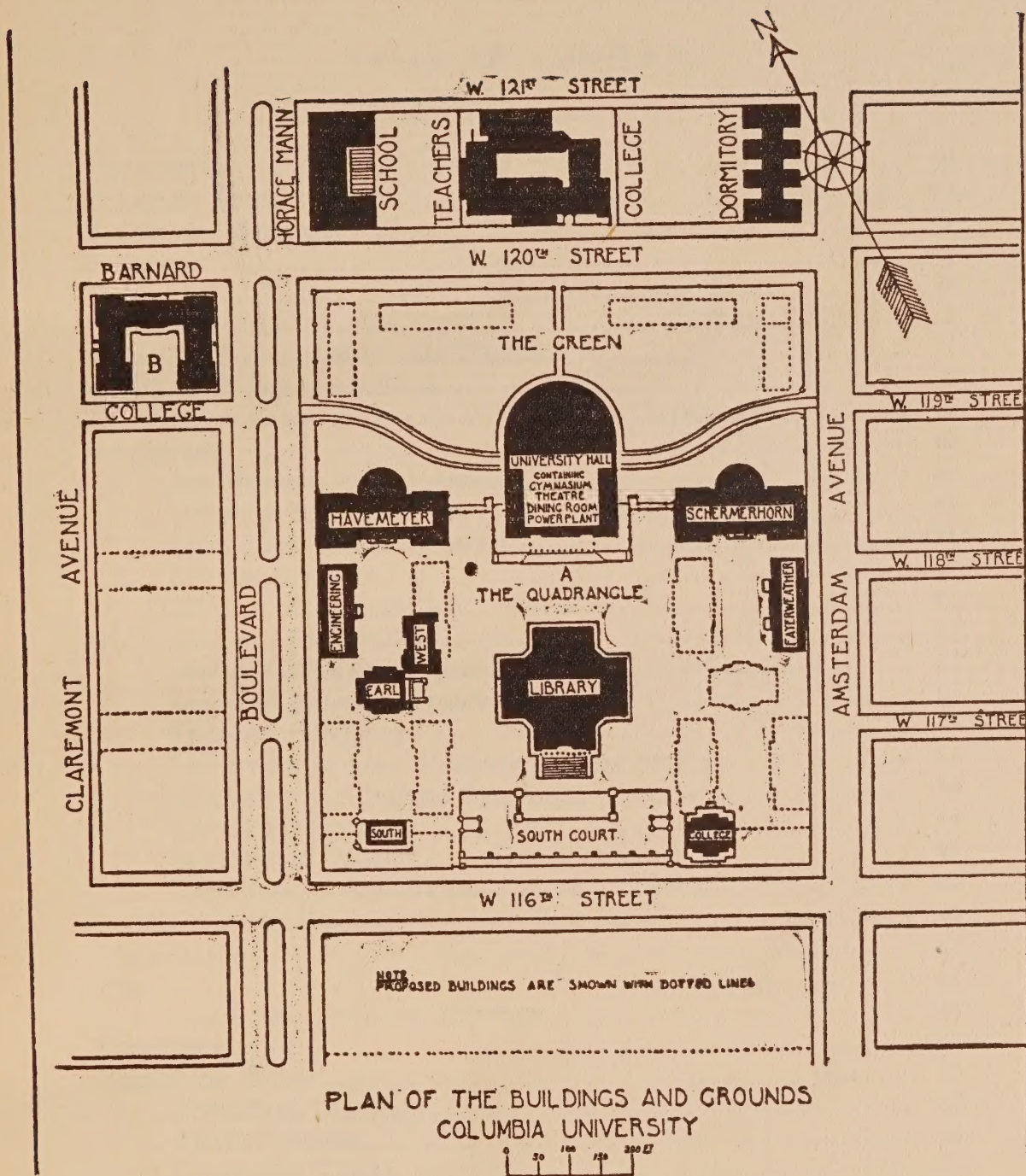
1903-1904

April, 1903









A—Entrance to University Gymnasium.  
B—Entrance to Barnard College Theatre.







## TABLE OF CONTENTS

---

TRUSTEES .....	vii
STANDING COMMITTEES.....	viii
ASSOCIATE MEMBERS.....	ix
FOUNDERS .....	x
FACULTY .....	i
OTHER OFFICERS.....	2
STANDING COMMITTEES OF THE FACULTY.....	6
OFFICERS OF ADMINISTRATION.....	6
RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY.....	7
ADMISSION .....	10
Requirements for Admission.....	10
Entrance Examinations.....	11
Application for Examination.....	12
Examination Fee.....	13
Division of Examination.....	13
Places of Examination.....	14
Schedule of Examinations.....	14
Report of Entrance Examinations.....	16
Entrance Conditions.....	16
Certificates in Lieu of Entrance Examination.....	17
Admission to Advanced Standing.....	18
Special Students.....	19
Students of Music.....	20
Definitions of Requirements in each Subject.....	20
MATRICULATION, REGISTRATION AND ENROLLMENT.....	40
WITHDRAWAL .....	41
FEES .....	41
Estimated Necessary Expenses.....	42
DORMITORY .....	42
COURSE OF STUDY.....	43
Prescribed Studies.....	43
Elective Studies.....	44
Graduation Theses.....	45
Teachers College Diploma.....	46
Examinations in Course.....	46
Proficiency and Deficiency.....	47
Probation .....	49
Honorable Dismissal.....	50
DEPARTMENTAL STATEMENTS.....	51
SCHEME OF ATTENDANCE.....	83



SCHOLARSHIPS .....	85
PRIZES .....	89
GENERAL HONORS.....	89
DEPARTMENTAL HONORS.....	90
THE UNIVERSITY LIBRARY.....	96
PUBLIC WORSHIP.....	97
ACADEMIC CALENDAR.....	98
REGISTER OF STUDENTS.....	101
RECIPIENTS OF DEGREES, ETC.....	111
STATISTICS .....	112
APPENDIX .....	113
INDEX .....	116



## TRUSTEES

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### CHAIRMAN\*

### VICE-CHAIRMAN

Mrs. A. A. ANDERSON.....6 East 38th St.

### CLERK

FREDERICK S. WAIT.....10 Wall St.

### TREASURER

GEORGE A. PLIMPTON.....41 East 33d St.  
Miss HELEN DAWES BROWN.....24 West 38th St.  
SILAS B. BROWNELL, LL.D.....322 West 56th St.  
Mrs. WILLIAM C. BROWNELL.....New Rochelle, N. Y.  
NICHOLAS MURRAY BUTLER, PH.D., LL.D...119 East 30th St.  
Mrs. JOSEPH H. CHOATE.....1 Carleton Terrace, London.  
Miss FLORENCE COLGATE.....50 East 57th St.  
REV. WILLIAM M. GROSVENOR, D.D.....209 Madison Ave.  
FREDERIC B. JENNINGS.....86 Park Ave.  
FRANKLIN B. LORD.....49 Wall St.  
SETH LOW, LL.D.....30 East 64th St.  
HAMILTON W. MABIE, L.H.D.....287 Fourth Ave.  
Mrs. ALFRED MEYER.....801 Madison Ave.  
Mrs. HENRY N. MUNN.....281 Lexington Ave.  
Mrs. HENRY FAIRFIELD OSBORN.....850 Madison Ave.  
Mrs. GEORGE HAVEN PUTNAM.....335 West 86th St.  
Mrs. HENRY M. SANDERS.....433 Fifth Ave.  
EDWARD W. SHELDON.....15 East 38th St.  
Mrs. JAMES S. T. STRANAHAN.....269 Union St., Brooklyn.  
Mrs. JAMES TALCOTT.....7 West 57th St.

\* This office is vacant owing to the death of the Hon. Abram S. Hewitt.



## STANDING COMMITTEES

1903

### ON FINANCE

Mr. JENNINGS	Mrs. PUTNAM
Mr. LORD	Mr. SHELDON
Mrs. MEYER	Mrs. TALCOTT

THE CHAIRMAN, *ex officio*

### ON BUILDINGS AND GROUNDS

Mrs. ANDERSON	Mrs. OSBORN
Mr. BUTLER	Mr. PLIMPTON
Mrs. MUNN	Mr. WAIT

THE CHAIRMAN, *ex officio*

### ON EDUCATION

Mr. BROWNELL	Mr. GROSVENOR
Mr. BUTLER	Mr. MABIE
Miss COLGATE	Mrs. SANDERS

Mr. SHELDON

THE CHAIRMAN, *ex officio*



## ASSOCIATE MEMBERS

Mrs. ROBERT ABBE.....	11 West 50th St.
Mrs. FREDERICK P. BELLAMY.....	260 Henry St., Brooklyn
Miss MARY BILLINGS.....	279 Madison Ave.
Mrs. ARTHUR BROOKS.....	3 Hubbard Park, Cambridge, Mass.
Mrs. WILLIAM H. CARPENTER.....	253 West 100th St.
Mrs. HENRY CLEWS.....	630 Fifth Ave.
Miss HELEN GRAY CONE.....	823 East 165th St.
Mrs. WINTHROP COWDIN.....	15 West 11th St.
Mrs. JULIEN T. DAVIES.....	17 West 9th St.
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Mrs. MARY MAPES DODGE.....	205 West 57th St.
Miss JEANNETTE L. GILDER.....	100 East 17th St.
Mrs. EDWIN L. GODKIN.....	8 West 10th St.
Mrs. ALMON GOODWIN.....	128 West 59th St.
Mrs. JAMES J. GOODWIN.....	11 West 54th St.
Mrs. ARNOLD HAGUE.....	1724 I Street, Washington, D. C.
Mrs. H. O. HAVEMEYER.....	1 East 66th St.
Mrs. HENRY HOLT.....	711 Madison Ave.
Mrs. ALFRED M. HOYT.....	934 Fifth Ave.
Dr. MARY PUTNAM JACOBI.....	19 East 47th St.
Mrs. FRANCIS P. KINNICUTT.....	39 East 35th St.
Mrs. SETH LOW.....	30 East 64th St.
Mrs. WILLIAM MOIR.....	6 West 20th St.
Mrs. F. P. OLCOTT.....	4 East 53d St.
Mrs. SAMUEL T. PETERS.....	117 East 37th St.
Mrs. ROGER A. PRYOR.....	3 West 69th St.
Mrs. ISAAC L. RICE.....	401 West End Ave.
Mrs. C. A. RUNKLE.....	328 West 57th St.
Mrs. RUSSELL SAGE.....	506 Fifth Ave.
Mrs. JACOB H. SCHIFF.....	932 Fifth Ave.
Miss AGATHE SCHURZ.....	24 East 91st St.
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Miss MABEL SLADE.....	18 West 52d St.
Mrs. JAMES SPEYER.....	257 Madison Ave.
Miss HELEN PHELPS STOKES.....	229 Madison Ave.
Mrs. A. B. STONE.....	150 West 59th St.
Mrs. ALGERNON SULLIVAN.....	16 West 11th St.
Mrs. RODERICK TERRY.....	169 Madison Ave.
Mrs. FREDERICK FERRIS THOMPSON.....	283 Madison Ave.
Mrs. LOUIS TIFFANY.....	27 East 72d St.
Miss AMY TOWNSEND.....	Albemarle Hotel



Mrs. SCHUYLER VAN RENSSELAER.....	9 West 9th St.
Mrs. HENRY VILLARD.....	145 West 58th St.
Miss ALICE WILLIAMS.....	Weedsport, N. Y.
Mrs. EDWARD WINSLOW.....	27 West 53d St.
Mrs. WILLIAM B. WOOD.....	33 West 47th St.
Mrs. LORENZO G. WOODHOUSE.....	34 West 53d St.

## FOUNDERS

[Any donor of not less than \$5,000 will be enrolled among the  
founders of Barnard College.]

JACOB H. SCHIFF	Mrs. VAN WYCK BRINCKERHOFF
Mrs. JAMES J. GOODWIN	Miss EMILY H. BOURNE
JAMES TALCOTT	SETH LOW, LL.D.
In the name of	Miss EMILY O. GIBBES
JOSIAH M. FISKE	Mrs. JAMES TALCOTT
Mrs. SETH LOW	In the name of
Mrs. C. B. HACKLEY	LAZARUS STRAUS
JOSEPH B. BLOOMINGDALE	JOSEPH PULITZER
J. PIERPONT MORGAN	JEFFERSON SELIGMAN
Mrs. ESTHER HERRMAN	Mrs. JABEZ A. BOSTWICK
Mrs. H. O. HAVEMEYER	FREDERIC B. JENNINGS
Mrs. F. P. OLCOTT	JOHN D. ARCHBOLD
Miss MABEL SLADE	Miss MATILDA W. BRUCE
Miss OLIVIA PHELPS STOKES	ISAAC GUGGENHEIM
Mrs. J. S. T. STRANAHAN	Mrs. HENRY FAIRFIELD OSBORN
JOHN D. ROCKEFELLER	J. HENRY SMITH
Mrs. CORNELIUS VANDERBILT	LOUIS STERN
Mrs. JOSEPH H. CHOATE	WILLIAM K. VANDERBILT
OLIVER H. PAYNE	WILLIAM ZIEGLER
Mrs. A. A. ANDERSON	



## THE FACULTY

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

LAURA DRAKE GILL, A.M., *Dean*

THOMAS R. PRICE, M.A., LL.D.,

*Professor of the English Language and Literature*

EDWIN R. A. SELIGMAN, Ph.D.,

*Professor of Political Economy and Finance*

HERBERT L. OSGOOD, Ph.D.,

*Professor of History*

EDWARD DELAVAN PERRY, Ph.D.,

*Jay Professor of Greek*

GEORGE RICE CARPENTER, A.B.,

*Professor of Rhetoric and English Composition*

FRANKLIN HENRY GIDDINGS, Ph.D., LL.D.,

*Professor of Sociology*

JOHN B. CLARK, Ph.D., LL.D.,

*Professor of Political Economy*

JAMES RIGNALL WHEELER, Ph.D.,

*Professor of Greek*

FRANK N. COLE, Ph.D.,

*Professor of Mathematics*

JAMES HARVEY ROBINSON, Ph.D.,

*Professor of History*

CALVIN THOMAS, A.M.,

*Gebhard Professor of the Germanic Languages and Literatures*

CARLO LEONARDO SPERANZA, A.M., B. és L.,

*Professor of Italian*

WILLIAM P. TRENT, M.A., LL.D.,

*Professor of English Literature*

MORTIMER LAMSON EARLE, Ph.D.,

*Professor of Classical Philology*

HERBERT GARDINER LORD, A.M.,

*Professor of Philosophy*

NELSON GLENN MCCREA, Ph.D.,

*Professor of Latin*

LIVINGSTON FARRAND, A.M., M.D.,

*Professor of Anthropology*

MARSTON TAYLOR BOGERT, A.B., Ph.B.,

*Adjunct Professor of Organic Chemistry*

BENJAMIN D. WOODWARD, Ph.D.,

*Professor of the Romance Languages and Literatures*

HENRY E. CRAMPTON, Ph.D.,

*Adjunct Professor of Zoölogy*

WILLIAM TENNEY BREWSTER, A.M.,

*Adjunct Professor of English*

CHARLES KNAPP, Ph.D.,

*Adjunct Professor of Classical Philology*

HENRY L. MOORE, Ph.D.,

*Adjunct Professor of Political Economy*

HERBERT MAULE RICHARDS, S.D.,

*Adjunct Professor of Botany*

MARGARET E. MALTBY, Ph.D.,

*Adjunct Professor of Physics*

#### Other Officers of Instruction

LOUIS AUGUSTE LOISEAUX, B.S.,

*Instructor in the Romance Languages and Literatures*

WILLIAM ROBERT SHEPHERD, Ph.D.,

*Instructor in History*

JAMES T. SHOTWELL, Ph.D.,

*Instructor in History*

RUDOLF TOMBO, Sr., Ph.D.,

*Tutor in German*

EDWARD KASNER, Ph.D.,

*Tutor in Mathematics*

HENRY BARGY, A.M.,

*Tutor in the Romance Languages and Literatures*



- WILLIAM FINDLAY, Ph.D.,  
*Tutor in Mathematics*
- GEORGE PHILIP KRAPP, Ph.D.,  
*Tutor in English*
- ADAM LEROY JONES, Ph.D.,  
*Tutor in Philosophy*
- \*WILHELM ALFRED BRAUN, A.B.,  
*Tutor in German*
- WILLIAM E. KELLICOTT, A.B.,  
*Tutor in Zoölogy*
- ALVIN SAUNDERS JOHNSON, A.M.,  
*Tutor in Economics and Social Science*
- CLAYTON MEEKER HAMILTON, A.M.,  
*Tutor in English*
- RICHARD THAYER HOLBROOK, A.B.,  
*Tutor in the Romance Languages and Literatures*
- VIRGINIA C. GILDERSLEEVE, A.M.,  
*Tutor in English*
- JULIA NELSON COLLES, A.M.,  
*Tutor in Physics*
- GERTRUDE M. HIRST, Ph.D.,  
*Tutor in Classical Philology*
- TRACY ELLIOT HAZEN, Ph.D.,  
*Tutor in Botany*
- ELEANOR KELLER, A.B.,  
*Lecturer in Inorganic Chemistry*
- GEORGE WILLIS BOTSFORD, Ph.D.,  
*Lecturer in Ancient History*
- ELSIE CLEWS PARSONS, Ph.D.,  
*Lecturer in Sociology*
- FREDERICK W. J. HEUSER, A.M.,  
*Lecturer in the Germanic Languages and Literatures*
- STEPHEN A. HURLBUT, A.M.,  
*Lecturer in Classical Philology*

\* Absent on leave.

---

*Lecturer in Chemistry*

FRANCES CAMPBELL BERKELEY, A.B.,

*Assistant in English*

IDA H. OGILVIE, A.B.,

*Assistant in Geology*

PAULINE HAMILTON DEDERER, A.B.,

*Assistant in Zoölogy*

ANNINA BRIAM, A.M. (Periam),

*Assistant in German*

ALICE A. KNOX, A.B.,

*Assistant in Botany*

---

*Assistant in Organic Chemistry*

---

*Conductor of Chorus*

### Officers of the University

who may give instruction to students in Barnard College

JOHN KROM REES, E.M., Ph.D.,

*Professor of Astronomy*

JOHN FRANCIS WOODHULL, Ph.D.,

*Professor of Physical Science in Teachers College*

WILLIAM HENRY CARPENTER, Ph.D.,

*Villard Professor of Germanic Philology*

JAMES McKEEN CATTELL, Ph.D.,

*Professor of Psychology*

FRANKLIN THOMAS BAKER, A.M.,

*Professor of the English Language and Literature in  
Teachers College*

HENRY ALFRED TODD, Ph.D.,

*Professor of Romance Philology*

CHARLES EARLE BIKLÉ, A.M.,

*Adjunct Professor of Mathematics in Teachers College*

EDWARD HOWARD CASTLE, A.M.,

*Professor of History in Teachers College*



- RICHARD E. DODGE, A.M.,  
*Professor of Geography in Teachers College*
- JAMES EARL RUSSELL, Ph.D.,  
*Professor of Education in Teachers College*
- FRANK MORTON McMURRY, Ph.D.,  
*Professor of the Theory and Practice of Teaching in Teachers College*
- PAUL MONROE, Ph.D.,  
*Professor of the History of Education in Teachers College*
- EDWARD ALEXANDER MACDOWELL, Mus. Doc.,  
*Professor of Music*
- FRANZ BOAS, Ph.D.,  
*Professor of Anthropology*
- FRANCIS ERNEST LLOYD, A.M.,  
*Adjunct Professor of Biological Science in Teachers College*
- SAMUEL TRAIN DUTTON, A.M.,  
*Professor of School Administration in Teachers College*
- GONZALEZ LODGE, Ph.D.,  
*Professor of Latin and Greek in Teachers College*
- CLARENCE H. YOUNG, Ph.D.,  
*Adjunct Professor of Greek*
- EDWARD LEE THORNDIKE, Ph.D.,  
*Adjunct Professor of Genetic Psychology in Teachers College*
- DAVID EUGENE SMITH, Ph.D.,  
*Professor of Mathematics in Teachers College*
- HENRY ROGERS SEAGER, Ph.D.,  
*Adjunct Professor of Political Economy*
- FREDERICK J. E. WOODBRIDGE, A.M.,  
*Professor of Philosophy*
- FELIX ADLER, Ph.D.,  
*Professor of Social and Political Ethics*
- JULIUS SACHS, Ph.D.,  
*Professor of Secondary Education in Teachers College*

ELIJAH WILLIAM BAGSTER-COLLINS, A.M.,  
*Adjunct Professor of German in Teachers College*

WILLIAM ADDISON HERVEY, A.M.,  
*Instructor in the Germanic Languages and Literatures*

JOHN A. MACVANNEL, Ph.D.,  
*Instructor in the History and Principles of Education in  
 Teachers College*

RUDOLF TOMBO, Jr., Ph.D.,  
*Instructor in German*

LEONARD BEECHER MCWHOOD, A.B.,  
*Tutor in Music*

S. ALFRED MITCHELL, Ph.D.,  
*Tutor in Astronomy*

ARTHUR FRANK JOSEPH REMY, A.M.,  
*Tutor in the Germanic Languages and Literatures*

### Standing Committees of the Faculty

COMMITTEE ON CURRICULUM AND SCHEME OF ATTENDANCE:  
 The Dean, *chairman*, Professors Earle, Crampton, Woodward  
 and Maltby.

COMMITTEE ON ADMISSION: Professors Earle, *chairman*,  
 Trent and Richards.

COMMITTEE ON SCHOLARSHIPS: The Dean, *ex officio, chair-*  
*man*, Professors Brewster and Knapp.

COMMITTEE ON HONORS: Professors Lord, *chairman*,  
 Woodward and Moore.

### Officers of Administration

N. W. LIGGETT, A.B.,  
*Bursar*

MARY F. KNOX, A.B.,  
*Registrar*

ANNA E. H. MEYER, A.B.,  
*Secretary*

FREDERICK A. GOETZE,  
*Superintendent of Buildings and Grounds*



## THE RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY

According to the agreement made January 19, 1900, (which is printed in full in the appendix), between the Trustees of Columbia College in the City of New York and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For

all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the Senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and



in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

### **Teachers College**

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, regular students of Teachers College are permitted to attend courses in Barnard College. Teachers College offers reciprocal advantages to the students of Barnard College. Courses which are counted toward a Teachers College diploma and are open to Seniors of Columbia College are also open to Seniors of Barnard College.

ADMISSION

The Committee on Admission has charge of everything relating to this subject.

Candidates for admission to the Freshman class must, at the time of entrance, be at least fifteen years of age ; and for admission to advanced standing a corresponding increase of age is required ; but exceptions to this rule may be made when, in the opinion of the Committee on Admission, there are reasons sufficient to justify them.

Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen, and students from other institutions must bring certificates of honorable dismissal.

Requirements for Admission

Every candidate for admission to Barnard College, either to the Freshman class or to a special course, is required at the entrance examinations to offer subjects amounting to fifteen (15) points\* as indicated below.

The candidate *must* offer :

English (page 23).....	counting 3 points.
Elementary Latin (page 34).....	“ 4 “
Elementary Mathematics (page 35) .....	“ 3 “

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

\* The relative value of subjects is expressed in points according to the time required for adequate preparation in them ; a point as here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.



Elementary Greek (page 31).....	counting	3	points.
Elementary History (page 32)....	"	1	point.
Intermediate French (page 26)...	"	1	"
Intermediate German (page 29)..	"	1	"
*Advanced History (page 33)....	"	1	"
Advanced Mathematics (page 35) .....	"	1	"
*Advanced Latin (page 34).....	"	1	"
*Advanced Greek (page 31).....	"	1	"
*Advanced Physics (page 37)....	"	1	"

For the special regulations concerning Advanced French and Advanced German see pages 27 and 30 respectively.

The candidate may offer not more than four (4) points in all from the three subjects following:

Elementary French (page 25)....	counting	2	points.
Elementary German (page 28)...	"	2	"
Spanish (page 37).....	"	2	"

The candidate may offer not more than two (2) points in all from the five subjects following:

Botany (page 20).....	counting	1	point.
Chemistry (page 21).....	"	1	"
Elementary Physics (page 36)....	"	1	"
Physiography (page 37).....	"	1	"
*Zoölogy (page 38).....	"	1	"

### Entrance Examinations

In 1903 the examinations will begin on June 15 and September 14 respectively.

In June, 1903, the entrance examinations of Barnard College will be those of the College Entrance Examination Board of which Columbia University is a member.

In September, 1903, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Entrance Examinations and will be held only at the College. The College Entrance Examination Board at present holds no examinations in September.

\* Candidates will be examined in this subject only in September.

### Application for Examination

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1903, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage. Applications for examination in New England, in the Middle States, or in Maryland, must be filed on or before June 1. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 25. Applications for examination in Europe must be filed on or before May 11.

*Candidates who fail to file their applications within the period prescribed by the regulations will not be admitted to examination without the special permission of the Secretary of the Board or the supervisor in charge of the examination, which permission will be given only for reasons of weight and on payment of double the regular examination fee.*

Candidates for the competitive scholarships to be awarded on the basis of the June examinations must, when filing an application with the Secretary of the College Entrance Examination Board, notify the Secretary of that Board of their intention to compete for a Barnard College scholarship; in which case their answer books, after being read by the readers of the Board, will be transmitted to the Committee on Admission of Barnard College.

For the examinations in September, 1903, candidates for admission to Barnard College should send their applications to the Registrar of Barnard College. Applications must be filed on or before September 7. Requests for blank forms of application should be addressed to the Registrar of Barnard College.

*Candidates who fail to file their applications within the period prescribed by the regulations will not be admitted to examination without the special permission of the Columbia*



*University Committee on Entrance Examinations, which permission will be given only for reasons of weight and on payment of double the regular examination fee.*

### Examination Fee

Every candidate for examination is required in each year in which she takes examinations to pay an examination fee of \$5.

Every application for examination in June must be accompanied by this fee in the form of a postal order, express order, or draft on New York, to the order of *The College Entrance Examination Board*.\*

Every application for examination in September must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of *Barnard College*; or by a receipt from the Bursar for an examination fee previously paid; or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

*Every candidate who, either in June or September, fails to file her application within the period prescribed in the preceding article, if admitted to examination, will be required to pay an additional fee of \$5.*

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which she attends as evidence that she is entitled to be admitted to the same.

### Division of Examination

A candidate may take examinations in June (but not in September) of the year preceding that in which she purposes to enter. Such examinations are known as preliminary examinations. At her preliminary examinations a candidate may, with the approval of her principal instruc-

\* An examination fee paid to the College Entrance Examination Board for admission to the June examinations does not cover the matriculation fee of Barnard College.

tor, offer any subject or numbered part of a subject. (See Definitions of Requirements below.)

In the year in which she purposes to enter, a candidate may divide her examinations between June and September in whatever manner she may wish, and she may offer again in September any subject in which she may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for sixteen months but not longer.

### Places of Examination

In June, 1903, entrance examinations will be held at a large number of widely distributed places. A complete list of the places of examination may be obtained from the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

In September, 1903, examinations for admission to Barnard College will be held only at Barnard College.

### Schedule of Examinations in 1903

In both June and September, 1903, entrance examinations will be conducted in the Barnard College Theatre. (See plan on page iii.)

Candidates taking these examinations must report to the Supervisor in the examination room fifteen minutes in advance of the first examination which they are to attend.

#### *Monday, June 15 and September 14*

Mathematics <i>a</i> , i, ii (Elementary Algebra: to Quadratics; Quadratics, etc.).....	9	-11
Mathematics <i>a</i> , iii (Advanced Algebra).....	11	-12
German <i>a</i> (Elementary German).....	1	- 2.45
Physics (Elementary).....	3	- 4.30
French <i>c</i> (Advanced French).....	4.30-	6



*Tuesday, June 16 and September 15*

Mathematics <i>c, d</i> (Plane Geometry; Solid Geometry) .....	9.15-11.45
French <i>a</i> (Elementary French) .....	1 - 2.45
Chemistry .....	3 - 4.30
German <i>c</i> (Advanced German) .....	4.30- 6
Spanish .....	4.30- 6

*Wednesday, June 17 and September 16*

Latin <i>a</i> (Grammar and Composition) .....	9 -10
Latin <i>c</i> (Cicero) .....	10 -11
Latin <i>m</i> (Sight Translation) .....	11 -12
History <i>a</i> (Ancient History) .....	1 - 3.30
History <i>c</i> (English History) .....	1 - 3.30
*Greek History .....	1 - 3.30
*Roman History .....	1 - 3.30
German <i>b</i> (Intermediate German) .....	3.45- 5.15

*Thursday, June 18 and September 17*

Greek <i>a</i> (Grammar and Composition) .....	9 -10
Greek <i>b</i> (Xenophon) .....	10 -11
Greek <i>g</i> (Sight Translation) .....	11 -12
Latin <i>d</i> (Virgil's <i>Æneid</i> , I-VI) .....	2 - 3
Latin <i>l</i> (Advanced Latin Composition) .....	3 - 4
French <i>b</i> (Intermediate French) .....	4.15- 5.45

*Friday, June 19 and September 18*

English <i>a</i> (Reading and Practice) .....	9 -10.30
English <i>b</i> (Study and Practice) .....	10.30-12
Mathematics <i>e</i> (Trigonometry) .....	1 - 3
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III) .....	3.15- 4.15
Greek <i>f</i> (Advanced Greek Composition) .....	4.15- 5.15

\* Separate examinations in Greek history and Roman history will be held in 1903, for the benefit of candidates who in 1902 took a preliminary examination in one of these subjects.

*Saturday, June 20 and September 19*

History <i>b</i> (Mediaeval and Modern History) . . . . .	9.30-12
History <i>d</i> (American History) . . . . .	9.30-12
*Botany . . . . .	I - 2.30
*Physiography . . . . .	I - 2.30

*The following examinations are given only on September 19*

*Advanced Greek . . . . .	I - 2.30
*Advanced History . . . . .	I - 2.30
*Advanced Latin . . . . .	I - 2.30
*Advanced Physics . . . . .	I - 2.30
*Zoölogy . . . . .	I - 2.30

**Report of Entrance Examinations**

The Committee on Admission will report to the Dean after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions and of those who must present themselves for reëxamination in September.

The Committee on Admission will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions and of those who have been rejected.

**Entrance Conditions**

A student is admitted to the Freshman class on probation when the total number of points received by her in the entrance examinations amounts to eleven (11) out of the total required fifteen (15) points; but this rule is subject to the proviso that the four (4) points of deficiency do not include the whole of English, Elementary Latin, or Elementary Mathematics. A total failure in any one of these

\* If a candidate offers more than one of these subjects, her examinations in them are to follow one another immediately and must be completed before she is permitted to leave the examination room.



subjects will be regarded as disqualifying a candidate for admission.

Students admitted conditionally to the Freshman class at the beginning of the academic year will be held under probation until the end of the first half-year.

### Certificates in Lieu of Entrance Examination

Barnard College accepts in lieu of its entrance examination no credentials of any sort except the Regents' Academic Diploma\* and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be in the hands of the chairman of the Barnard College Committee on Admission at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the bulletin board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents*

\* Every Regents' Academic Diploma is considered to cover the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in Elementary French unless it covers the complete two-years' high-school course in French recognized by the Regents. The third-year French will be accepted as equivalent to the Intermediate French, provided that the Regents' examination in that subject was not taken more than sixteen months before the date of the candidate's admission to Barnard College. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in Elementary German unless it covers the complete two-years' high-school course in German. The third-year German will be accepted as equivalent to the Intermediate German, provided that the Regents' examination in that subject was not taken more than sixteen months before the date of the candidate's admission to Barnard College. To be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, a Regents' Academic Diploma must specifically cover, among other things, sight reading and prose composition. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work. No diploma granted more than two years before the applicant presents herself for matriculation will be accepted.

*of the State of New York, are not accepted by the College in lieu of the examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Admission to Advanced Standing

Candidates for admission from other colleges and students who desire to be admitted to advanced standing on examination must make application in writing to the Barnard College Committee on Admission. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of

1. The requirements for admission to the Freshman class ;
2. All the prescribed studies already pursued by the class to which she seeks admission ;
3. As many elective studies as she would have pursued if she had entered the class at the beginning of the Freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the degree of Bachelor of Arts until she shall have brought all her studies up to the point required for that degree.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) a letter of honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.



No applicant will be allowed to enter the Senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### Special Students

Special courses of study are offered by the College to young women of proper age and character who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the Freshman class. Special students must have covered in full the fifteen (15) points of admission requirements. (See p. 10.) Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College, special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in any year courses amounting to at least eight (8) points, unless excused by the Dean for reasons of special weight.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or who has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students. They will, therefore, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

### Students of Music

Admission may be obtained to courses in music without examination in any subject except English. The written authorization of the Director of the Department of Music must be presented by the candidate to the Registrar at the time of registration.

Students of music are not admitted to courses in other departments of the College unless they have satisfied the full entrance requirements.

### Definitions of Requirements\*

(Specimens of the question papers set by Columbia University for the September examinations may be obtained from the Registrar upon application. The question papers set by the College Entrance Examination Board for the June examinations are published in book form by Messrs. Ginn & Company, Boston, Mass. The volumes for 1901 and 1902 are sold for sixty cents each.)

### Botany† (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiataæ, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funnaria*), a leafy hepatic, *Marchantia*, a mildew (*Microsphaera*), an agaric, *Vaucheria*, *Spirogyra*, and a proto-phyte (preferably *Sphærella*).

\* The relative value of subjects is expressed in points according to the time required for adequate preparation in them; a point as here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

† For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.



Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

### Chemistry (counting one point)

The candidate's preparation in chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order

of presentation will naturally be determined by each teacher for himself.

OUTLINE.—The chief physical and chemical characteristics, the preparation and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminum, lead, tin, iron, manganese, chromium.*

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

LABORATORY NOTE-BOOK.—Every candidate must present *at the time of her examination in chemistry* a note-book in which she has recorded the steps and the results of her laboratory

experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by..... in the chemical laboratory of.....School during the year 19....  
 .....  
 Instructor in Chemistry.

### English (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

- a. **READING AND PRACTICE.**—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present the exercise book,\* properly certified by her instructor, which contains whatever notes, exercises, and compositions she has written in connection with the reading of the books.

\* Such exercise books should be prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. *Exercise books should be sent to the Secretary of Columbia University not later than two weeks before the first day of the examinations.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed for reading. Exercise books will *not* be returned to the writers.



The candidate is expected to read intelligently *all* the books prescribed. She should read them as she reads other books; she is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates offering this part of the requirement as a preliminary subject should be prepared on the books prescribed for the year in which they purpose to enter the College.

The books prescribed for this part of the examination are as follows:

In 1903, 1904, and 1905: Shakspeare's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908: Shakspeare's Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Launcelot and Elaine, and The Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

b. STUDY AND PRACTICE.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1903, 1904, and 1905: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907, and 1908: Shakspeare's *Julius Cæsar*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison and Life of Johnson*.

### French

#### *a. Elementary* (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating

into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouvé and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mairé's *La tâche du petit Pierre*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Le siège de Paris*, Verne's stories.

#### **b. Intermediate (counting one point)**

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE.—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.



Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Corneille's *Le Cid* and *Horace*, Coppée's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *Pêcheur d'Islande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seiglière*, Scribe's plays, Thierry's *Récits des temps mérovingiens*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

### c. Advanced\*

THE AIM OF THE INSTRUCTION.—At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

THE WORK TO BE DONE.—This should comprise the reading of from 600 to 1000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais's *Barbier de Séville*; Corneille's dramas; the elder Dumas's prose writings; the younger Dumas's *La question d'argent*; Hugo's *Ruy Blas*, lyrics, and prose writings; La Fontaine's fables; Lamartine's *Graziella*; Marivaux's plays; Molière's plays; Musset's plays and poems; Pellissier's *Mouvement littéraire au XIX<sup>e</sup> siècle*; Renan's *Souvenirs d'enfance et de jeunesse*; Rousseau's writings; Sainte-Beuve's essays; Taine's *Origines de la France contemporaine*; Voltaire's writings; selections from Zola, Maupassant, and Balzac.

\* Advanced French must be offered by candidates who wish to enter the course French 2. (See courses announced by the Department of Romance Languages and Literatures.) It may not be counted among the points required for admission.

**German****a. Elementary** (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving her ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of everyday life or based upon the text given for translation; and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends

of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien*, and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of about forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

#### **b. Intermediate (counting one point)**

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE.—The work should comprise, in addition to the elementary course, the reading of about 400



pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das edle Blut*.

### c. Advanced\*

THE AIM OF THE INSTRUCTION.—At the end of the advanced course the student should be able to read, after brief inspection, any German literature of the last one hundred and fifty years that is free from unusual textual difficulties, to put into German a passage of simple English prose, to answer in German questions relating to the lives and works of great writers studied, and to write in German a short, independent theme upon some assigned topic.

\* Advanced German may be offered by candidates desiring to take advanced courses in German. It may not be counted among the points required for admission.

THE WORK TO BE DONE.—The work of the advanced course (last year) should comprise the reading of about 500 pages of good literature in prose and poetry, reference readings upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, and independent translation of English into German.

### Greek

#### Elementary (counting three points)

*a. i. Greek Grammar.*

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

*ii. Greek Composition.*

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

*b. Xenophon.*

The first four books of the *Anabasis*.

*c. Homer.*

The first three books of the *Iliad* (omitting II, 494-end), including constructions, poetical forms, and prosody.

*f. Advanced Greek Composition.*

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

*g. Sight Translation.*

Translation into English at sight, based on prose of no greater difficulty than Xenophon's *Anabasis*.

#### Advanced (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek B. (See courses announced by the Department of Greek.) In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to

the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's Greek Prose Composition will show the grade of preparation demanded. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

### History

#### Elementary (counting one point)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

##### First Group:\*

- a. Ancient history, including a brief introductory study of the Oriental peoples, and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
- b. Mediæval and modern history, with due reference to the growth of the state-system.

##### Second Group:

- c. English history, with due reference to social and political development.
- d. American history, with the elements of civil government.

NOTE.—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

\* Examinations in Greek history and Roman history will be given in 1903 (but not thereafter), for the benefit of candidates who in 1902 took a preliminary examination in one of these subjects.



**Advanced (counting one point)**

The requirement in Advanced History is intended to be an equivalent for History A—the course prescribed in Barnard College. (See courses given by Department of History.) The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in Elementary History, and desire to offer Advanced History also, must present themselves for examination upon the historical fields included in *that group which they did not offer as an elementary subject*. For example, if a candidate offers the first group as the elementary subject, she must offer the second group as the advanced subject, and *vice versa*. The examination will presuppose superior ability on the part of the candidate in Advanced History to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be presented in the form of a notebook, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.

- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Secretary of Columbia University two weeks before the entrance examination begins.

### Latin

#### Elementary (counting four points)

a. i. Latin Grammar.

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive.

ii. Latin Composition.

Translation into Latin of detached sentences and very easy continuous prose based upon Cæsar and Cicero.

c. Cicero.

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

d. Virgil.

The first six books of the *Æneid*, including prosody.

l. Advanced Latin Composition.

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

m. Sight Translation.

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

#### Advanced (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin **A**. (See

courses announced by the Department of Latin.) This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

### Mathematics

#### Elementary (counting three points)

a. i. Algebra to quadratics.

Factors, common divisors, and multiples, fractions, equations of the first degree with one or more unknown quantities, evolution, the doctrine of exponents, radicals, radical equations reducible to equations of the first degree, and putting problems into equations.

ii. Algebra from quadratics.

Quadratic equations, equations with one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive entire exponents.

c. Plane geometry.

Plane geometry, including the solution of simple original exercises and numerical problems.

#### Advanced (counting one point)

d. Solid geometry.

Solid and spherical geometry, including the solution of simple original exercises and numerical problems.

a. iii. Algebra.

The arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the use of four-place and five-place tables of logarithms.



e. Plane trigonometry.

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

Physics

Elementary (counting one point)

The candidate's preparation in physics should include:

- a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examinations Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-station 84, New York, N. Y.

LABORATORY NOTE-BOOK.—Every candidate must present *at the time of her examination in physics* a note-book in which she has recorded the steps and the results of her laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
in the physical laboratory of.....School  
during the year 19... ..  
Instructor in Physics.

**Advanced (counting one point)**

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Secretary of the University.

**Physiography (counting one point)**

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.\*

The candidate will be required to present at the time of her examination the original note-book in which she recorded, with dates, the steps and results of her laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

**Spanish (counting two points)**

THE AIM OF THE INSTRUCTION.—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

\* For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Doña Perfecta*; *Marianela*; Padre Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

### Zoölogy (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

*Practical Zoölogy.* A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*) and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its



allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.

## MATRICULATION, REGISTRATION, AND ENROLMENT

Every student will be required, as a condition of admission, to matriculate on a blank prepared for the purpose, upon which she shall state her name, place of abode, and post-office address, and the name, place of abode, and post-office address of her father or guardian, and such other information as may from time to time be required. A student is required to matriculate but once, upon first connecting herself with the University. *In the fall of 1903, new students are required to present themselves at the College for matriculation between Wednesday, September 16, and Wednesday, September 23, inclusive.*

Registration consists in furnishing to the Registrar, upon blanks provided for the purpose, such information as the University may request. Enrolment consists in filing, upon blanks provided for the purpose, a statement of the courses which a student may be authorized to pursue. *In the fall of 1903, all students previously members of the College are required to present themselves at the College for registration and enrolment between Wednesday, September 16, and Tuesday, September 22, inclusive.*

Matriculation, registration, and enrolment at dates later than those specified are permitted only to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown, and who pay the additional fee of five dollars (\$5) for the permission. All students will be held strictly accountable for absences incurred owing to enrolment at a later date, unless excused by the Dean.

Every student who holds a scholarship or is receiving the benefit of free or reduced tuition must obtain from the Dean a certificate to that effect. This certificate must be handed to the Bursar at the time of registration.

### Withdrawal

Students are requested, in case of withdrawal from the College during the academic year, to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice is given.

### FEES

On entering Barnard College every student is required to pay a matriculation fee of \$5. This requirement is covered by a fee paid to Barnard College for entrance examinations in September, but not by a fee paid to the College Entrance Examination Board in June.

An additional fee of \$5 will be required (a) of all students previously members of the College who do not *register* on or before September 22, 1903, and (b) of all new students who do not *matriculate* on or before September 23, 1903.

The annual tuition fee of every regular student is \$150, payable in two equal instalments, one at the opening of the College in October, the other on the opening day of the second half-year in February.

The fee for special students is estimated at the rate of \$15 a year for each hour a week of attendance upon the courses elected, with a maximum fee of \$150. In laboratory work two hours are counted as one in estimating the fee. All fees amounting to less than \$100 must be paid in full at entrance.

In order to cover the cost of materials in laboratory work the following fees are required:

Department	Rate
Botany (courses 51-58 inclusive, each course).....	\$2.50
Botany (course 59).....	5.00
Geography (each course).....	2.00
Physical Science at Teachers College.....	2.00
Zoölogy (each course).....	5.00

In the Department of Chemistry deposits to cover breakage and materials are as follows:

Elementary Chemistry.....	\$ 5
Qualitative Chemistry.....	10
Quantitative Chemistry.....	15
Organic Chemistry.....	20



A fee of \$5 will be charged for every examination held at a period not regularly appointed for that purpose in previous public announcements. When examinations in more than one subject are granted under one permit a single fee of \$5 shall cover them all.

Each candidate for the degree of Bachelor of Arts is required to pay a fee of \$15 before being admitted to the final examinations for the degree.

Checks should be made payable to the order of *Barnard College*, and should be addressed to the Bursar, Barnard College, New York, N. Y.

### Estimated Necessary Expenses

Board, \$7 to \$12 a week.

Matriculation fee, \$5.

Annual tuition fee, \$150.

Text-books, from \$10 to \$20 each year.

Final examination for the degree, \$15.

The total necessary expenses for a student for the academic year are believed to average about \$15 a week.

### DORMITORY

From October, 1898, to June, 1902, Fiske Hall was used as a residence for students. This building was given by Mrs. Martha T. Fiske-Collord for a Hall of Science, and was only temporarily used as a dormitory.

The rapid growth of the student body forced the Trustees to remodel the building according to the original plan. It was therefore discontinued as a dormitory after July 1, 1902, and was remodeled into laboratories and lecture-rooms.

The Trustees feel that the dormitory added a most desirable influence to the college life, and voted to take steps to provide a permanent and separate dormitory as soon as possible.

In the meantime, provision is made in the Teachers College Dormitory for such Barnard College students as may desire to reside there, by which certain unity of college life

may be maintained until the College shall have its own permanent dormitory.

Applications for information and for rooms should be made to the Director of the Teachers College Dormitory, 1230 Amsterdam Avenue, New York, N. Y.

All students who do not live with adult relatives or in the Teachers College Dormitory must have the approval of the Dean to their arrangements for residence.

### COURSE OF STUDY

The attention of students is called to the following regulations relating to the selection of studies and to the requirements for the degree of Bachelor of Arts.

Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points, each point having the value of a subject pursued one hour a week for one academic year, except that laboratory hours shall be counted for one half of the number of hours actually occupied. Not less than twelve, nor more than sixteen, points may be presented in any year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. Until the end of her Junior year, a student must always pursue not fewer than three courses having a value of at least three points each.

The courses necessary to meet these requirements may be chosen by the student at will from the courses announced each year, subject to the restrictions named in connection with each course, and to the general restrictions that the following studies are prescribed:

#### Prescribed Studies

##### ENGLISH

*English A*, 3 points, Freshman year.

*English B*, 3 points, Sophomore year.

##### LATIN

*Latin A or B*, 3 points, Freshman year.

Prescribed for students who offer Elementary Latin but not Advanced Latin for admission.

## FRENCH

*French A*, 3 points, Freshman or Sophomore year, as the Dean may permit or prescribe.

Prescribed (unless French 1 be elected) for students who do not offer Elementary French for admission.

## GERMAN

*German A*, 3 points, Freshman or Sophomore year, as the Dean may permit or prescribe.

Prescribed (unless German 2 be elected) for students who do not offer Elementary German for admission.

## MATHEMATICS

*Mathematics A*, 3 points, Freshman year.

Prescribed for students who do not offer Advanced Mathematics for admission.

## HISTORY

*History A*, 3 points, Sophomore year.

Prescribed for students who do not offer Advanced History for admission.

## PSYCHOLOGY

*Psychology A*, 1½ points, Sophomore or Junior year.

## ECONOMICS

*Economics A*, 1½ points, Junior year.

## NATURAL SCIENCE

Botany 51, 3 points; or Chemistry 1, 3 points; or Physics 1, 3 points; or Zoölogy 2, 4 points. Freshman, Sophomore or Junior year.

**Elective Studies**

In making out their list of electives, students are confined to the courses given as open to them in the departmental and other statements contained in this Announcement of the College. They must avoid conflicts of courses at the same hour, and for that purpose should consult the scheme of attendance. (See pp. 83-84.)

Students just entering must give notice, at the time of matriculation, of the elective courses chosen by them.



Students in the College are required to give notice to the Dean of their choice of elective courses on or before June 5. Blank forms for this purpose may be procured from the Registrar. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

No changes in elective courses can be made without the written permission of the Dean. Such permission will be granted only for reasons of weight stated in writing, and no changes can be made later than two weeks after the beginning of the first term.

Permission is also necessary to entitle a student to take more than four hours of work, not including laboratory work, on the same day, and to take more than six hours of work weekly in any department.

The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is announced.

Elective courses are subject to withdrawal if elected by fewer than three students.

### Graduation Theses

Every candidate for graduation shall, with the approval of the instructor in charge of one of the courses in which she has studied, or is studying, select for a thesis some subject connected with that course, and, on or before December 15, communicate her selection to the Dean on blanks which are to be procured at the office of the Secretary. Under such guidance and with such help as the instructor may deem it right to give her, she shall complete the thesis, or essay, and submit it to the Dean on or before April 2. This thesis shall be judged by the head of the department in which the chosen subject lies; and judgment shall be passed upon the merit of the thesis both in its substance and in its style, and shall be reported in writing by the head of the department to the Dean. In returning the graduation thesis to the Dean the examining officer shall report:

1. A grade as to substance;
2. A grade as to style;
3. A grade as to its merits as a whole.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least two thousand (2000) words, unless there be special reasons for reducing its length; and it shall be retained as the property of the College.

If any student fail to comply with these requirements, or if her thesis be rejected, she shall not be recommended to the Trustees for graduation.

The graduation thesis must be written on firm, strong paper, eleven (11) by eight and one-half ( $8\frac{1}{2}$ ) inches in dimensions, and a space of one and one-half ( $1\frac{1}{2}$ ) inches on the inner margin must be left free from writing.

### Teachers College Diploma

The course of study in Teachers College for those that intend to teach in secondary schools is so arranged that students of Barnard College may, if they so desire, obtain the Diploma of Teachers College at the time of receiving the degree of Bachelor of Arts. Details as to these courses will be found in the Announcement of Teachers College, which will be sent on application to the Secretary of Teachers College.

### Examinations in Course

Two examinations of all the classes are held every year. For the year 1903-4 these examinations will begin on Wednesday, January 20, and on Wednesday, May 18. The former is called the mid-year examination; the latter, the final examination. Any department may omit the mid-year examination in some or all of its courses for Seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. It is the privilege of any department to announce that, in some or all of its courses, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

Any student who shall have been absent from more than one-tenth of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of her absences, and, should she exceed the limit allowed in any course, she must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all her absences, or be debarred from the examination.

Examinations to enable deficient or debarred students of all classes to make good their deficiencies are held within the two weeks immediately preceding the opening of the College in the fall; and in addition, for members of the Senior class only, during the first week in May.

The examinations provided for in the foregoing sections are *stated examinations*. Examinations of students in the College other than these, and held by special permission of the Dean, are *special examinations*.

A student found deficient in any subject at a stated examination will not be allowed a special examination in that subject.

A student absent from a stated examination in any subject will be allowed a special examination in that subject only when the absence was due to unavoidable circumstances. In that case the Dean may, on proper written certification to her of the circumstances, grant a special examination.

The fee for a special examination is \$5, which must be paid by the student before being admitted to the examination. If a student has special examinations in more than one subject granted her under one permit from the Dean, a single fee of \$5 shall cover them all.

### Proficiency and Deficiency

At the close of every half-year, and after the stated examination has been held, each officer of instruction shall report to the Dean a list of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure.

A student reported in grade F or a student absent from a midyear or final examination in any course will be deemed



deficient in that course, and required to pass another examination in it at the time fixed for the examination of deficient and debarred students, unless, for reasons of weight, the Dean shall otherwise direct.

A student reported in grade D in any course at the close of the first half-year will be warned by the instructor in charge thereof that her work is so unsatisfactory that, unless improved, it may result in her being found deficient at the close of the second half-year.

A student reported in grade D in two or more courses at the end of the first half-year will be warned by the Dean that her record is not satisfactory, and that, unless she improves, she may be required to take the courses a second time or to substitute other courses.

A student reported in grade D in two or more courses may be required by the Dean to take the courses a second time or to substitute other courses.

No student may be advanced from the Freshman to the Sophomore class until she shall (a) have satisfied all the requirements for entrance, and (b) have not less than nine points to her credit.

No student may be advanced from the Sophomore to the Junior class until she shall have not less than twenty-four points to her credit.

No student may be advanced from the Junior to the Senior class until she shall have accomplished all the studies of the course specifically required in the first three years, and have not less than forty-five points to her credit.

For advancement under the foregoing sections, a student must be reported in a grade above D in the greater number of the courses giving her the requisite total of points; failing which she shall be dropped from the roll of her class, unless the Dean, for reasons of weight, shall otherwise determine. A student dropped from the roll of her class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but she may enter the next succeeding class and pursue the course or courses in which her deficiency exists, or, in case of elective courses and with the consent of the

Dean, other course or courses equivalent thereto in time, and present herself for examination in such course or courses with that class. No student dropped from the roll of her class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, she shall be dropped from the roll of the College, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

In all cases, the requirements for advancement from class to class must be satisfied before the opening of the College year.

### Probation

Students admitted conditionally to the Freshman class are held under probation until the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, the head of each department in which students on probation attend shall make to the Dean a special report of progress in the case of every such student. The Dean shall as soon as practicable, and not later than the end of the half-year, decide as to each student on probation, whether she shall have her period of probation extended or be dropped from the roll of the College.

If any member of the Freshman class receive at the mid-year examinations a grade in scholarship of C, or higher, in any subject, this grade shall be regarded as removing any entrance condition that may have been recorded against her in that subject.

Any member of the Freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. She should present herself for this purpose at the entrance examinations in June or September of the year following her admission.

*The College holds no special examinations to enable students to remove entrance conditions.*

*No student may be admitted to the Sophomore class until she shall have removed all her entrance conditions.*

### Honorable Dismissal

An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian, given in writing to the Dean.

Students are requested in case of withdrawal during the academic year to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.



## DEPARTMENTAL STATEMENTS

NOTE—The hours for laboratory work are not given in the Scheme of Attendance; they must be arranged on consultation with the officers in charge of the courses.

The credit given for each course is counted in points, not in hours. Courses marked with an asterisk (\*) are given at Columbia University and are open only to Seniors. Courses marked with a dagger (†) are given at Teachers College.

For more detailed information in regard to topics, textbooks, or methods, in any particular course, students are referred to the instructors.

### Anthropology

**1—Anthropology**, general introductory course. Lectures, essays, and discussions. Professor FARRAND. Two points.

M. and W. at 10.30.

Open to Juniors and Seniors.

In the first half of this course a description of human races and of their distribution is given. The physical characters of the earliest human remains and their relations to present forms are discussed, and types of languages and their geographical distribution are described. In the second half of the year there is a discussion of the mental development of primitive man, which is followed by a description of types of primitive culture, and an inquiry into the origin and development of particular phases of culture.

**7—General Ethnography**. Lectures, readings, and discussions. Professor FARRAND. Two points.

M. and W. at 11.30.

Open to specially qualified Juniors and Seniors.

In this course the ethnography of primitive tribes is described in geographical order. The collections in the American Museum of Natural History will be utilized for illustrating the customs of the peoples under discussion.

**\* 2—The Statistical Study of Variation**, introductory course. Lectures, essays, and discussions. Professor BOAS. Two points.

Tu. and Th. at 9.30.

Open to Seniors with the written permission of the instructor.

This course is intended as an introduction to the study of variation for students of anthropology, biology, and psychology.

**\* 5—American Languages.** Lectures and discussions. Professor BOAS.

Tu. and Th. at 10.30, Psychological Laboratory, Schermerhorn.

Selected languages will be discussed representing different types. Indian myths will be translated in connection with grammatical interpretation. The course extends over two years, allowing time for the consideration of representative types of North American languages.

### Astronomy

**\* 1—General Astronomy.** Professor REES assisted by Dr. MITCHELL. Two points.

Tu. and Th. at 11.30.

Open to Seniors.

**\* 2—Spherical and Practical Astronomy.** Professor REES and Dr. MITCHELL. Two lectures and two hours of observatory work. Three points.

M. and W. at 2.30.

These days and hours may be changed if students electing the subject so desire.

Open to Seniors who have taken Mathematics 6.

For fuller information regarding the scope of the courses in the Department of Astronomy, the student is referred to the pamphlet giving the Announcement of the Faculties of Political Science, Philosophy, and Pure Science for 1903-1904.

### Botany

**51—Elementary Botany.** Professor RICHARDS and Miss KNOX. Five hours, lectures, demonstrations, and laboratory work. Three points.

Lectures M. and F. at 9.30. Demonstrations W. at 9.30.

Laboratory fee, \$2.50.

**52—General Morphology and Development of Plants.** Dr. HAZEN. Two lectures, four hours of laboratory work. Four points.

Two additional hours of laboratory work may be taken, in which case Botany 52 will count as five points.

Tu. and Th. at 10.30.

Laboratory fee, \$2.50.

Course 52 should be preceded by 51, but is open, on consultation with the instructors, to students of sufficient training who also either attend the lectures in 51 or elect the full six hours of laboratory work in Course 52.

**53—Morphology and Ecology of Phanerogams,** with practice in determination of species. Dr. HAZEN. Four hours. Two points.

Laboratory fee, \$2.50.

Open to students that have taken, or are taking, Course 51.

**54—Anatomy of Vascular Plants.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. First half-year. Two and one-half points.

Laboratory fee, \$2.50.

**55a—Physiology of Plants from Standpoint of Nutrition.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. Alternate second half-years. Two and one-half points.

Laboratory fee, \$2.50.

**[55b—Physiology of Plants from Standpoint of Growth.** Professor RICHARDS. Two lectures and a minimum of six hours of laboratory work. Alternate second half-years. Two and one-half points.

Laboratory fee, \$2.50.

*Not given in 1903-4.]*

Courses 54, 55a and 55b presuppose a knowledge of the more elementary courses. Open to students only after consultation with the instructor.

**56—Structure and Development of Algæ.** Advanced course. Professor RICHARDS. One lecture, six hours of laboratory work. First or second half-year. Two points.

Laboratory fee, \$2.50.

Open to students that have taken Courses 51 and 52.

**57—Structure and Development of Fungi.** Advanced course. Professor RICHARDS. One lecture, six hours of laboratory work. First or second half-year. Two points.

Laboratory fee, \$2.50.

Open to students that have taken Courses 51 and 52.

Courses 56 and 57 are given either the first or second half-year to suit the convenience of the instructor and students. The two courses will not usually be given the same year.



**58—Developmental Anatomy.** Practice in methods of technique. Professor RICHARDS and Dr. HAZEN. Eight hours of laboratory work with occasional lectures and outside reading. First or second half-year. Two points.

Laboratory fee, \$2.50.

Open to students that have taken Course 54.

May be taken with Course 55a or 55b.

**59—Advanced Physiology and Morphology.** Professor RICHARDS and Dr. HAZEN. Written work, outside reading, and a minimum of eight hours of laboratory work. Six points. Work will be arranged to suit the needs of the students.

Laboratory fee, \$5.

### Chemistry

**1—Inorganic Chemistry.** Two lectures and two hours of laboratory work. Three points.

M. and W. at 11.30.

Laboratory fee, \$5.

**7—Qualitative Analysis.** Two lectures and a minimum of six hours of laboratory work. Five points. Hours to be arranged.

Laboratory fee, \$10.

Open to students that have taken Course 1.

**9—Quantitative Inorganic Analysis.** Two lectures and a minimum of eight hours of laboratory work. Six points. Hours to be arranged.

Laboratory fee, \$15.

Open to students that have taken Courses 1 and 7.

**20—Organic Chemistry, Elementary Lecture Course.** Two lectures. Two points. Hours to be arranged.

Open to students that have taken Course 1. It is urged that, if possible, Course 30 be taken with this course.

**30—Organic Chemistry, Elementary Laboratory Course.** Eight hours. Four points. Hours to be arranged.

Laboratory fee, \$20.

This course is designed to teach the student the important methods of preparation of organic compounds, of elementary analyses, and of vapor-density determinations. Text-book: Gattermann's *Practical Methods of*

*Organic Chemistry.* Prerequisite: Courses 1 and 20 (or it may be taken at the same time with Course 20).

**38—Organic Chemistry, Advanced Course.** Two lectures and six hours of laboratory work. Five points.

Laboratory fee, \$20.

This course is designed to supplement Courses 20 and 30. Such subjects as the fats, waxes, sugars, diazo-compounds, phthaleins, quinones, terpenes, synthetical perfumes and flavoring extracts, synthetical drugs, etc., are treated, special emphasis being given to the historical development of our knowledge of each subject.

The laboratory work consists of the preparation of organic compounds referred to in the lectures and the study of their reactions. Text-books: Richter's *Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*.

Minor for A.M. or Ph.D. Prerequisites: Courses 1, 20, 30.

(For Physical Chemistry by Professor Maltby see **Physics 4.**)

## Economics and Social Science

### Economics

**A—Outlines of Economics.** Study of the characteristics of modern industrial society and of the fundamental economic principles. Professor MOORE and Dr. JOHNSON. First half-year. One and one-half points.

Section I, Tu., Th., S., 9.30; Section II, Tu., Th., 11.30, S. 9.30.

Prescribed for Juniors. Open to qualified Sophomores who take Course 1.

**1—Economic History of England and the United States,** with constant attention to the evolution of present economic conditions and the rise of current social problems. Professor MOORE and Dr. JOHNSON. Second half-year. One and one-half points.

M., W., and F. at 10.30.

This course forms a natural supplement to Course A and should be elected by students who desire a broad understanding of economic questions.

Open to Juniors, Seniors, and properly qualified Sophomores.

**2b—The Recent Development of Economics in England,** with a critical study of Marshall's *Principles of Economics*. Professor MOORE. Second half-year. One point.

W. and F. at 1.30.

Open to students that have taken Course A or an equivalent.

**2c—The Social Teachings of Carlyle, Ruskin, J. S. Mill, Kingsley, and T. H. Green.** Professor MOORE. First half-year. One point.

W. and F. at 1.30.

Open to students that have taken Course A or an equivalent.

**3—Practical Economics.** Professor SEAGER. First half-year. One point.

Tu. and Th. at 1.30.

This course suggests how economic theories are to be applied to the solutions of questions of the day. The topics discussed are money, banking, taxation, government expenditures, foreign trade, monopolies and trusts, and the legal regulation of industries.

Open to students that have taken Course A or an equivalent.

**6—The Labor Problem.** Professor SEAGER. Second half-year. One point.

Tu. and Th. at 1.30.

This course should be elected in conjunction with Course 3 by students desiring a whole year's work in practical economics.

Open to students that have taken Course A or an equivalent.

**11—Communistic and Socialistic Theories.** Professor CLARK. First half-year. One point.

Tu. and Th. at 11.30.

Open to Seniors.

**12—Theories of Social Reform.** Professor CLARK. Second half-year. One point.

Tu. and Th. at 11.30.

Open to Seniors.

#### Sociology

**15—Principles of Sociology.** Professor GIDDINGS. Two points.

Tu. and Th. at 2.30.

Open to Seniors.

**16—Family Organization.** Dr. ELSIE CLEWS PARSONS. Field work in the study of family groups. Consultations. One point.

Tu. at 3.30 bi-weekly.

Open to Seniors.

In connection with the lectures and field work of this course opportunities are given to students to become acquainted with the more important private institutions for social betterment in New York City, and to study the organization and activity of the various public agencies charged with the welfare of the community.



### Education

Teachers College is the Division of Education of Columbia University. *A full statement of the nature of its courses, the work pre-requisite to them, and the credit which may be received for them in partial fulfilment of the requirements for the several diplomas and degrees, will be found in the current edition of the Announcement of Teachers College, which may be had, without charge, upon application to the Secretary of the College.*

The following courses in Education are open to students of Barnard College.

1. Courses open to juniors and seniors only are designated by the numbers 10-49 inclusive.

2. Courses open to seniors and graduates only are designated by the numbers 50-99 inclusive.

Psychology A and Education 10 are prerequisite to all courses in education. Education 50 must be taken parallel with other courses in the Senior year.

#### *History and Philosophy of Education*

† 50—History and Principles of Education. Lectures, required readings, reports and discussions. Three points. Professor MONROE and Dr. MACVANNEL.

Tu. and Th. at 3.30 and a third hour in sections.

(b) F. at 9.30 for candidates for a Bachelor's diploma in secondary teaching.

(c) S. at 9.30 for candidates for a Bachelor's diploma in elementary and kindergarten teaching.

(e) F. at 2.30 for students who obtain the consent of the instructor.

† 51—Educational Problems. Lectures, readings, and discussions. One point. Dean RUSSELL, President BUTLER, and special lecturers.

W. at 4.30.

† 52—Modern Educational Theory. Lectures, reading, and discussion. Two points. Dr. MACVANNEL.

Tu. and Th. at 2.30.

*Educational Administration*

† 54—**School Administration.** Lectures, essays, and discussions. Two points. Professor DUTTON.

M. and F. at 4.30.

*Educational Psychology*

† 10—**Educational Psychology.** Lectures, practical exercises, and recitations. One and one-half points. Professor THORNDIKE and assistants.

*Second half-year sections*

(a) M., W., and F. at 9.30 open to candidates for the Bachelor's diploma in kindergarten, elementary, and secondary teaching.

(c) M., W., and F. at 3.30 open to collegiate students and others by permission of the instructor.

*First half-year section*

(d) M., W., and F. at 2.30 intended especially for Barnard College students.

† 12—**Child Study.** Observation, experiments, private reading, and conferences. Two points. Professor THORNDIKE and Miss NORSWORTHY.

Tu. and Th. at 10.30.

(For course in Genetic Psychology by Professor Thorndike see **Psychology 11.**)

*Elementary Education*

† 15—**General Method and Practice Teaching.** Weekly conferences following observation of lessons and practical work in the schoolroom. Three points. Professor McMURRY and instructors.

(a) Class work, 2 points. Tu. at 10.30 and S. 10.30–12.30.

(b) Practical work, 1 or more points. Hours and credit must be arranged with the instructor before registration.

† 16—**Primary and Kindergarten Teaching.** Lectures, observation, and practical work. Two points. Miss O'GRADY.

Tu. and Th. at 11.30.

*Secondary Education*

† 57—**Secondary Education.** Lectures, discussions and reports. Two points. Professor SACHS.

Tu. and Th. at 4.30.

*Biology*

† 60—**Theory and Practice of Teaching Biology in the Secondary School.** Lectures, discussions, and practical work. Three points. Professors LLOYD and BIGELOW.

(a) Class work, 2 points. M. and W. at 11.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college biology, 3 points of which may be taken concurrently.

*English*

† 26—**Theory and Practice of Teaching English in Elementary Schools.** Lectures, recitations, and private reading. Two points. Professor BAKER.

(a) Class work, 1 point. M. and F. at 11.30, first half-year.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: English A, and 2 or their equivalent.

† 66—**Theory and Practice of Teaching English in Secondary Schools.** Lectures, reading, written work, observation, and practice-teaching. Three points. Professor BAKER.

(a) Class work, 2 points. M. and W. at 9.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college English.

*Geography*

† 32—**Theory and Practice of Teaching Geography in Elementary Schools.** Lectures, discussions, and practical work. Two points. Redway's *New Basis of Geography*, Tarr and McMurry's *North America*. Professor DODGE and Miss C. B. KIRCHWEY.

(a) Class work, 1 point. Tu. and Th. at 11.30, first half-year.



(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: Geography 1 or 2, or their equivalent.

† 72—Theory and Practice of Teaching Geography in Secondary Schools. Lectures, discussions, and practical work. Three points. Davis's *Physical Geography* and *Report of Committee on College Entrance Requirements of National Educational Association*. Professor DODGE and Miss C. B. KIRCHWEY.

(a) Class work, 2 points. M. and W. at 11.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: 9 points in geography and geology, including Geography 10, and at least 2 points in geology.

#### German

† 74—Theory and Practice of Teaching German in Secondary Schools. Lectures, essays, discussions, reports of observation, and practice teaching. Three points. Professor BAGSTER-COLLINS.

(a) Class work, 2 points. M. and W. at 3.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college German.

#### Greek

† 76—Theory and Practice of Teaching Greek in Secondary Schools. Lectures, reports, and practical work. Three points. Professor LODGE.

(a) Class work, 2 points. Tu., Th. (and F.) at 1.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college Greek.

#### History

† 38—Theory and Practice of Teaching History in Elementary Schools. Lectures, conferences, reference work, and practical work. Two points. Professor CASTLE.

Class work, 1 point. M. and W. at 10.30, second half-year.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

† 78—Theory and Practice of Teaching History in Secondary Schools. Lectures, discussions, and practical work. Three points. Professor CASTLE.

Class work, 2 points. Tu. and Th. at 9:30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college history.

### *Latin*

† 82—Theory and Practice of Teaching Latin in Secondary Schools. Lectures, reports, and practical work. Three points. Professor LODGE.

Class work, 2 points. M., W. (and F.) at 1.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college Latin.

### *Mathematics*

† 46—Theory and Practice of Teaching Mathematics in Elementary Schools. Lectures, discussions, and practical work. Two points. Professor SMITH.

Class work, 1 point. M. and W. at 10.30, first half-year.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **Mathematics A**, or its equivalent.

† 86—Theory and Practice of Teaching Mathematics in Secondary Schools. Lectures, discussions, and practical work. Three points. Professor SMITH.

Class work, 2 points. Tu. and Th. at 11.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college mathematics.

### *Nature Study*

† 20—Theory and Practice of Teaching Nature Study in Elementary Schools. Lectures, discussions, and practical work. Three points. Professors LLOYD and BIGELOW.

(a) Class work, 2 points. Tu. and Th. at 11.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **Biology 10**, or its equivalent.

*Physical Education*

† 49—**School Hygiene.** Lectures, demonstrations, collateral reading, reports, and practical work. Two points. Professor WOOD.

M. and W. at 11.30.

*Physical Science*

† 92—**Theory and Practice of Teaching Physical Science in Secondary Schools.** Chemistry; physics. Laboratory exercises, observation, and practical work. Three points. Professor WOODHULL.

Class work, 2 points. F., 1.30–3.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 hours in college physics and chemistry.

**English Language and Literature**

**A—Rhetoric, English Composition, and Literature.** Professor BREWSTER, Mr. HAMILTON, Miss GILDERSLEEVE and Miss BERKELEY. Recitations, themes, lectures. Three points.

Tu., Th., and S. at 10.30.

Prescribed for Freshmen.

**B—English Composition and Literature.** Professor BREWSTER, Miss GILDERSLEEVE and Miss BERKELEY. Lectures, themes, consultations. Three points.

Tu. and Th. at 1.30 and a third hour to be arranged.

Prescribed for Sophomores.

**1—English Composition.** Professor BREWSTER. Lectures, daily themes. First half-year. One and one-half points.

Tu. and Th. at 9.30, and a third hour to be arranged.

Open to students that have taken Course B.

**2a—English Composition.** Professor BREWSTER. Essays, lectures and discussions. Alternate second half-years. One and one-half points.

Tu. and Th. at 9.30 and a third hour to be arranged.

Open to students that have taken Course 1. Given in alternation with Course 2b.



[2b—English Composition and Literature, with Special Attention to Expository and Critical Writing. Professor BREWSTER. Alternate second half-years. One and one-half points.

Open to students that have taken Course 1. Given in alternation with Course 2a.

*Not given in 1903-4.]*

9—Argumentative Composition. Miss GILDERSLEEVE. Lectures, essays, debating. Three points.

Tu. and Th. at 9.30, and a third hour to be arranged.

Open to students that have taken Course B.

[10—English Essayists of the Nineteenth Century. Professor G. R. CARPENTER. Two points.

Open to students that have taken Course A.

Course 10 alternates with Course 21.

*Not given in 1903-4.]*

15—Anglo-Saxon and Historical English Grammar. Professor JACKSON. Two points.

M. and W. at 1.30.

Open to students that have taken Course A.

[16—Anglo-Saxon Literature—Poetry and Prose, with Special Attention to Beowulf. Professor TRENT. Two points.

Open to students that have taken Course 15.

Course 16 alternates with Course 17.

*Not given in 1903-4.]*

17—Middle English Literature—Poetry and Prose, with Special Attention to Chaucer. Professor TRENT. Two points.

M. and W. at 10.30.

Open to students that have taken or are taking Course 15.

19—Shakspeare: Language, Versification and Method of Dramatic Poetry. Professor PRICE. Two points.

M. and W. at 10.30.

Open to students that have taken Course A.

[20—Victorian Poetry. Professor TRENT. Two points.

Open to students that have taken Course A.

Course 20 alternates with Course 23.

*Not given in 1903-4.]*

21—American Literature. Professor G. R. CARPENTER. Two points.

Tu. and Th. at 10.30.

Open to students that have taken Course A.

**22—English Fiction in the Nineteenth Century.** Professor BREWSTER. Two points.

Tu. and Th. at 11.30.

Open to students that have taken Course A.

Course 22 alternates with Course 24.

**23—English Poetry.** A general survey from Spenser to Tennyson. Professor TRENT. Two points.

M. and W. at 11.30.

Open to students that have taken Course A.

Course 23 may be taken up or dropped at the mid-year.

**[24—English Prose.** General survey from the Restoration to modern times. Professor BREWSTER. Two points.

Open to students that have taken Course A.

Course 24 may be taken up or dropped at the mid-year.

Course 24 alternates with Course 22.

*Not given in 1903-4.]*

**[47—English Literature in the Seventeenth Century, with Special Attention to Milton and Dryden.** Professor TRENT. Two points.

Open to Seniors that have taken any two of the following courses: English 10, 16, 17, 19, 20, 21, 22, 23, and 24.

*Not given in 1903-4.]*

**\* 48—English Literature in the Eighteenth Century, with special attention to poetry.** Professor TRENT. Two points.

S., 10.30-12.30.

Open to Seniors that have taken any two of the following courses: English 10, 16, 17, 19, 20, 21, 22, 23, and 24.

**French.** See Romance Languages and Literatures

### Geography

**† 1—General Geography.** Professor DODGE. Lectures and laboratory work. Two points.

Tu. and Th., 9.30-11.30.

Laboratory fee, \$2.

Open to all undergraduate students.

**† 2—General Geography (continued).** Professor DODGE. Lectures and laboratory work. Two points.

Tu. and Th., 1.30-3.30.

Laboratory fee, \$2.

Open to undergraduate students that have had Geography 1 or its equivalent.

† 10—**Physiography**—first half-year. **Geography of the United States**—second half-year. Professor DODGE. Lectures, laboratory, and library work. Three points.

M. and W., 9.30–11.30.

Laboratory fee, \$2.

Open to Juniors and Seniors.

The first half-year may be elected separately, counting as one and one-half points.

(Courses in Methods of Teaching Geography in Elementary and in Secondary Schools are also offered. See **Education** 32, 72.)

### Geology

2—**General Geology**. Lithological, dynamical, physical, and historical geology, including laboratory work with rocks and fossils. Miss OGILVIE. Three points.

M., W., and F. at 1.30.

As a preliminary to this course it is desirable although not essential that students should have taken Chemistry 1 and Zoölogy 2, and that they should have some knowledge of Mineralogy.

## Germanic Languages and Literatures

### *German*

**A—Elementary Course**. Mr. HEUSER and Miss PERIAM. Three points.

Section I, Tu., Th., S. at 9.30. Section II, M., W., and F. at 2.30.

Prescribed for Freshmen who did not present German at entrance.

2—**Grammar, Reading, and Composition**. Dr. TOMBO and Mr. HEUSER. Three points.

Section I, M., W., and F. at 1.30. Section II at 2.30.

Open to students who presented German at entrance.

3a—**Selected Works of Goethe, Schiller, and Lessing**. Texts, chiefly dramatic, and essays in German. Intended primarily for students who have not previously read works of these authors. Dr. TOMBO.

M., W., and F. at 1.30.



**3b—Selected Works of Goethe, Schiller, and Lessing.** Texts and essays in German. Intended primarily for students who have some acquaintance with the works of these authors. Dr. TOMBO.

M., W., and F. at 3.30.

**4—Historical Prose.** Selections from German historians, essayists and critics. Mr. HEUSER. Three points.

Tu., Th., and S. at 10.30.

**6a—History of German Literature** from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Tu. and Th. at 11.30.

Open to students that have taken Course 3 or 4.

[\* **6b—History of German Literature** from the Reformation to the 19th century. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Open to students that have taken Course 3 or 4.

*Given at Barnard College 1904-5.]*

**8—Practice in Speaking and Writing German.** Talks, conferences, and themes, all in German, upon linguistic and literary topics. Dr. TOMBO. Two points.

Tu. and Th. at 1.30.

Open to students that have taken Course 3 or 4.

\* **10a—Great German Writers. Lessing** (first half-year) and **Goethe** (second half-year). Lectures and essays. Professor THOMAS. Two points.

W. and F. at 10.30.

Open, with the permission of the instructor, to Seniors.

[\* **10b—Great German Writers. Schiller** (first half-year) and **Heine** (second half-year). Lectures and essays. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1903-4; given in 1904-5.]*

[\* **11—Old High German.** Dr. R. TOMBO, Jr. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1903-4.]*

\* **21—Middle High German.** Mr. HERVEY. Two points.

M. and W. at 2.30.

Open, with the permission of the instructor, to Seniors.

\* 20—History of German Literature in the Nineteenth Century. Professor THOMAS. Two points.

W. and F. at 11.30.

Open, with the permission of the instructor, to Seniors.

25—Geschichte der deutschen Litteratur im 19. Jahrhundert. Vorlesungen in deutscher Sprache. Dr. TOMBO. Two points.

Tu. and Th. at 2.30.

Open to students that have taken Course 3 or 4.

#### *Scandinavian*

\* 12—Swedish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. Professor THOMAS. Two points.

Tu. and Th. at 10.30.

Open, with the permission of the instructor, to Seniors.

[\* 13—Danish. Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Danish and Norwegian literature. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1903-4.]*

\* 14—Icelandic. Elementary Course. Professor W. H. CARPENTER. Two points.

Tu. and Th. at 2.30.

Open, with the permission of the instructor, to Seniors.

[\* 15—Icelandic. Advanced Course. Professor W. H. CARPENTER. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1903-4.]*

#### *Low German*

[\* 16—Dutch. Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Dutch literature. Professor W. H. CARPENTER. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1903-4.]*

\* 24—Old Saxon. Elementary Course. Dr. R. TOMBO, Jr. Two points.

Tu. and Th. at 1.30.

Open, with the permission of the instructor, to Seniors.

*Gothic*

\* 17—**Gothic.** Elementary Course. Dr. REMY. Two points.

Tu. and Th. at 4.30.

Open, with the permission of the instructor, to Seniors.

*Germanic Philology*

\* 18—**General Introduction to Germanic Philology.** Lectures and exercises. Professor W. H. CARPENTER. Two points.

M. and W. at 2.30.

Open, with the permission of the instructor, to Seniors.

**Greek**

**A—Beginners' Course:** Grammar, Composition, Xenophon's *Anabasis*, Homer's *Iliad*. Mr. HURLBUT. Three hours a week throughout the year.

To be counted as three points by such students as subsequently pass either the entrance examination in Elementary Greek or an equivalent examination.

M., W., and F. at 2.30.

**B—Plato:** *Apology* and *Crito*, with a part of the *Phædo*; first half-year. **Homer:** *The Odyssey* (selections); second half-year. Greek prose composition fortnightly throughout the year. Miss HIRST and Mr. HURLBUT. Three points.

M., W., and F. at 11.30.

Open to Freshmen that have presented Elementary Greek at entrance and to students that have satisfied the conditions of Course A.

**3—Euripides:** *Alcestis* and *Medea*; required private reading; first half-year. **Isocrates:** *Panegyricus*; required private reading; second half-year. Mr. HURLBUT and Professor EARLE. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course B or its equivalent.

An additional hour weekly in prose composition will be offered, and students that take this may count either Course 3 or Course 4 as four points.

**4—Rapid Reading of Homer.** Professors WHEELER and YOUNG. Three points.

Hours to be arranged.



Open as an elective to Juniors and Seniors; also to qualified Freshmen and Sophomores.

**6—Sophocles: Ajax and Electra;** first half-year. **Aristophanes: Clouds and Birds;** second half-year. For private reading in the course of the year: **Thucydides (VI).** Professors EARLE and KNAPP. Three points.

M., W., and F. at 1.30.

Open to Juniors and Seniors.

**7—Advanced Greek Prose Composition.** Professor EARLE. One session weekly, with written exercises, counting as two points.

Th. at 11.30.

Open to Juniors and Seniors. Required of candidates for Junior Honours in Classics.

**8—New Testament Greek:** Reading of the Gospel according to Luke and the Acts of the Apostles with special regard to the forms and idioms of New Testament Greek. Professor EARLE. Two points.

Hours to be arranged.

Open to especially qualified Juniors and Seniors.

**31—Plato: The Republic;** first half-year. **Pindar (Olympians and Pythians);** second half-year. Professors EARLE and KNAPP. Three points.

M., W., and F. at 9.30.

Open to Juniors and Seniors.

(For Teachers' Course by Professor Lodge see Education 76.)

### History

**A—Epochs of Ancient, Mediæval, and Modern History,** with special reference to forms of government and changes in social conditions. Dr. SHOTWELL. Three points.

Section I, Tu., Th., and S. at 9.30. Section II, Tu. and Th. at 9.30, S. at 10.30.

Prescribed for Sophomores, but may be taken as an elective by Freshmen.

**1—Mediæval and Modern History to the Peace of Westphalia.** Dr. SHOTWELL. Three points.

Tu. and Th. at 10.30, and a third hour to be arranged.

Open to Juniors, and to Sophomores who have taken Course A.

This course covers practically the same period as Course 11, but treats different phases of the political and social development, such as Charlemagne's Empire, Feudalism, the Mediæval Church in its political and social aspects, the Crusades, the Towns, especially the Italian city-states in the 14th and 15th centuries, the rise of the Modern Monarchies, the Empire of Charles V, and the Protestant Revolt.

**[2—Continental and English History, modern and contemporaneous.** Dr. SHOTWELL. Three points.

Open to Juniors, and to Sophomores who have taken Course A.

This course includes a study of the Revolutionary and Napoleonic periods and the development of the European states including England since 1815. An especial effort will be made to prepare the student to understand current European political and social issues.

*Not given in 1903-4.]*

**3—English History to the Reform Bill, 1832.** Dr. BOTS-FORD. Three points.

M. and W. at 10.30, and a third hour to be arranged.

Open to Juniors, and to Sophomores who have taken Course A.

**4—History of the United States to the Close of Reconstruction.** Dr. SHEPHERD. Three points.

M., W., and F. at 11.30.

Open to Juniors, and to Sophomores who have taken Course A.

**6—The History of England during the Eighteenth and Nineteenth Centuries.** Professor OSGOOD. Two points.

Tu. and Th. at 2.30.

Open to Seniors and, with the permission of the Dean, to Juniors.

Courses 6 and 16 are given in alternate years.

**11—Development of Culture during the later Middle Ages, Renaissance, and Protestant Revolution.** Professor ROBINSON. Three points.

Tu. at 3.30, and Th. at 2.30 and 3.30.

Open to Seniors and, with the permission of the Dean, to Juniors.

**[16—Constitutional History of England to 1689.** Professor OSGOOD. Two points.

Open to Seniors.

Courses 6 and 16 are given in alternate years.

*Not given in 1903-4.]*

**31—Political and Constitutional History of the United States.** Dr. SHEPHERD. Two points.

M. and W. at 10.30.

Open to graduate students and Seniors. It is strongly recommended that students intending to take this course should first take History 4.

The lectures will deal particularly with the sources of the national Constitution, the steps incident to its establishment, the political controversies involved in its later application to the actual development of the nation, and its gradual growth through judicial interpretation. It will conclude with a consideration of those problems which formed the preliminaries of the Civil War.

**[50—Greece and Rome.** Dr. BOTSFORD. Three points.

Open to Seniors and, with the permission of the Dean, to Juniors.

This course will follow the development of Greek politics and civilization from the Mycenæan to the Hellenic age and the rise of Rome to supremacy in Italy.

*Not given in 1903-4.]*

**51—The Roman Empire.** Dr. BOTSFORD. Three points.

Tu. and Th. at 9.30, with a third hour to be arranged.

Open to Seniors and, with the permission of the Dean, to Juniors.

Course 51, which alternates with Course 50, brings the history of the Empire and the western world down to the time of Justinian.

### Latin

**A—Cicero: De Senectute and De Amicitia;** prose composition weekly; first half-year. **Horace: Odes;** prose composition continued; second half-year. Miss HIRST. Three points.

M., W., and F. at 9.30.

Prescribed for Freshmen that do not take Course B.

**B—Livy: Book XXII;** prose composition weekly; first half-year. **Horace: Odes;** prose composition continued; second half-year. Miss HIRST. Three points.

Tu., Th., and S. at 9.30.

Prescribed for Freshmen that do not take Course A.

**1—Satires and Epistles of Horace;** first half-year. **Tacitus: Agricola and Germania;** second half-year. Professor EARLE and Miss HIRST. Three points.

M., W., and F. at 10.30.

Open to students that have taken Course A or Course B.

An extra hour weekly will be offered in prose composition to students of Course 1 and Course 2, and students that take this may count Course 1 as four points or Course 2 as three points.

**2—Catullus and Tibullus;** first half-year. **The Letters of Pliny;** second half-year. Mr. HURLBUT. Two points.

Tu. and Th. at 11.30.



Open to students that have taken Course A or Course B.

An extra hour weekly will be offered in prose composition to students of Course 1 and Course 2, and students that take this may count Course 1 as four points or Course 2 as three points.

3—Cicero: *Tusculan Disputations*; prose, first half-year. *Lucretius* (selections); second half-year. Professor McCREA. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course 1 or Course 2.

4—Terence: *Adelphoe* and *Heauton Timorumenos*; first half-year. *Plautus*: *Rudens* and *Menæchmi*; second half-year. Professor KNAPP. Three points.

M., W., and F. at 2.30.

Open to students that have taken Course 1 or Course 2.

22 — Advanced Latin Prose Composition. Professor KNAPP. One session weekly, with written exercises, counting as two points.

Tu. at 11.30.

Open to students that have had two years' work in college in Latin prose composition.

23—Latin Themes. Professor KNAPP. One session weekly, counting as two points.

Th. at 11.30.

Open to students that have taken Course 22

34—Suetonius; first half-year. *Virgil*: *Æneid VII–XII*; second half-year. Professor KNAPP and Miss HIRST. Three points.

M., W., and F. at 11.30.

Open to Juniors and Seniors.

35—Seneca (selections from the prose works); first half-year. *Lucan*; second half-year. Professor KNAPP. Two points.

Tu. and Th. at 10.30.

Open to Juniors and Seniors.

(For Teachers' Course by Professor Lodge see Education 82.)

### Mathematics

A—Geometry, Algebra, and Trigonometry. Solid geometry; algebra, including progressions, permutations and combinations, and logarithms; plane trigonometry, including the use

of tables, the solution of triangles, and the important analytical formulæ. Dr. KASNER and Dr. FINDLAY. Three points.

Section I, M., W., and F. at 9.30. Section II, M., W., and F. at 10.30. Section III, M., W., and F. at 11.30. Section IV, Tu., Th., and S. at 9.30.

Prescribed for Freshmen that did not present advanced mathematics at entrance.

**1—Analytical Geometry.** Introduction to the analytical geometry of the plane and of space. Dr. KASNER. First half-year. One and one-half points.

M., W., and F. at 9.30.

Open to students that have taken Course A or presented advanced mathematics at entrance.

**2—Calculus.** Elementary course in the differential and integral calculus. Dr. KASNER. Second half-year. One and one-half points.

M., W., and F. at 9.30.

Open to students that have taken Course 1.

Courses 1 and 2 are required for admission to all advanced courses.

**3—Theory of Equations.** Algebraic and numerical solution of equations, determinants, complex numbers. Dr. FINDLAY. Three points.

M., W., and F. at 1.30.

Open to students that take, or have taken, Course 1.

**5—Projective Geometry.** Projective methods of pure geometry. Three points. Dr. FINDLAY.

M., W., and F. at 2.30.

Open to students that have taken Courses 1 and 2.

**6—Calculus.** Differential and integral calculus. Professor COLE. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course 2.

**[7—Differential Equations.** Ordinary and partial differential equations, with applications to geometry. Dr. KASNER. Three points.

Open to students that have taken Course 6.

*Not given in 1903-4.]*

**[8—Advanced Analytical Geometry.** Modern methods in analytical geometry; solid analytical geometry. Dr. FINDLAY. Three points.

Open to students that take, or have taken, Course 6.

*Not given in 1903-4.]*

† 51—**History of Mathematics.** Professor D. E. SMITH.  
Two points.

M. and W. at 9.30.

Other courses in the history and teaching of mathematics are offered in Teachers College.

### Mechanics

3b—**Theoretical Mechanics.** Dr. KASNER. Three points.  
M., W., and F. at 10.30.

Open to students that have taken Mathematics 6.

### Music

The announcement of the Department of Music is provisional, and may be altered in a few details.

\* 1—**General Musical Course.** History and analysis with illustrations. Professor MACDOWELL. One point.

W. at 9.30.

\* 2—**General Musical Course, advanced.** Modern music, instrumentation, and forms, with illustrations. Professor MACDOWELL. One point.

W. at 11.30.

\* 3—**Harmony.** Mr. McWHOOD. Two points.

F., 10.30-12.30.

Students in Course 3 are required, unless excused, to take also Course 6.

\* 4—**Counterpoint.** Professor MACDOWELL and Mr. McWHOOD. Two points.

S., 10.30-12.30.

\* 5—**Orchestration and Symphonic Form.** Professor MACDOWELL. Two points.

M., 10.30-12.30.

\* 6—**Musical Dictation.** Mr. McWHOOD. One point.

F. at 1.30.

\* 7—**Advanced Harmony and Practical Composition.** Professor MACDOWELL and Mr. McWHOOD. One point.

S. at 9.30.

Students in Course 7 are required to take also either Course 6 or Course 10.



\* 9—**University Orchestra.** Mr. HINRICHS. One point.  
S., 12.30–2.30.

\* 10—**Musical Dictation, advanced.** Mr. McWHOOD. One point.

W. at 1.30.

\* 11—**Free Composition, advanced course.** Professor MACDOWELL. One point.

W. at 10.30.

\* 12—**Analysis of Musical Sound.** Mr. McWHOOD. One point.

W. at 2.30, second half-year.

## Philosophy and Psychology

### Philosophy

1—**Historical and Critical Introduction to Philosophy.** Weber's *History of Philosophy*; Windelband's *History of Philosophy*; Paulsen's *Introduction to Philosophy*. Lectures, essays, and private reading. Dr. JONES. Three points.

M., W., and F. at 2.30.

Open to Juniors and Seniors.

This course serves as a general introduction to the study of Philosophy, and is prerequisite to all Courses except 2, 8, and 9.

2—**Ethics.** Recitations, essays, and discussions. MacKenzie's *Manual of Ethics*. Professor LORD. Second half-year. One and one-half points.

M., W., and F. at 9.30.

This course is prerequisite to Courses 7 and 8.

Open to students that have taken Psychology A.

\* 8—**Principles and Problems of Æsthetics.** Dr. JONES. Two points.

Tu. and Th. at 1.30.

Open to Seniors.

Two hours of laboratory work, counting as an additional point, may be taken in connection with this course.

9—**Logic and Scientific Method.** Aikins's *Principles of Logic*; Jevons's *Principles of Science*. Recitations and discussions. Dr. JONES. First half-year. One and one-half points.

M., W., and F. at 11.30.

\* 3—The Philosophy of Kant. Dr. SHELDON. Two points.

M. and W. at 1.30.

\* 4—British Philosophy from Locke to Herbert Spencer. Professor WOODBRIDGE. Two points.

Tu. and Th. at 2.30.

\* 15—The Philosophy of Leibniz. Dr. ———. Two points.

M. and W. at 10.30.

\* 20 — Post-Kantian Idealism. Dr. SHELDON. Two points.

M. and W. at 11.30.

\* 21—Post-Kantian Realism. Dr. ———. Two points.

Tu. and Th. at 9.30.

\* 6—Logic and Metaphysics. Professor WOODBRIDGE. Two points.

Tu. and Th. at 3.30.

\* 11—The Philosophical Value of Scientific Concepts. Dr. SHELDON. Two points.

Tu. and Th. at 10.30.

\* 7—Ethics. Advanced Course. Dr. ———. Two points.

Tu. and Th. at 11.30.

\* 18—Political and Social Ethics. Professor ADLER. Two points.

W. and F. at 4.30.

\* 12—Philosophical Practicum: Selected Topics in Modern Philosophy, principally taken from the writings of Hegel and of Herbart. President BUTLER. Two points.

\* 26—Lectures on the Fundamental Problems of Philosophy, given chiefly by invited lecturers from other universities. Two points.

M. and Tu. at 4.30.

#### Psychology

A—The Elements of Psychology. James's *Psychology*, briefer course. Discussions, practical exercises and recitations. One and one-half points.

Sections I and II, M., W., and F. at 9.30, first half-year. Professor LORD and Dr. JONES.

Prescribed for Juniors, unless taken in Sophomore year.

Section III, M., W., and F. at 11.30, second half-year. Dr. JONES. Specially arranged for Sophomores who have taken **Philosophy 9**.

In the first half-year students are assigned to the sections in alphabetical order, but for reasons of weight, with the consent of the Dean, a student may be transferred to a section other than that to which she properly belongs.

**10—Analytic Psychology, Introductory Course.** Recitations and discussions. Professor LORD. Second half-year. One and one-half points.

Tu., Th., and Sat. at 9.30.

This course is in continuation of **Psychology A**. It is designed to study intensively certain topics necessarily omitted altogether, or but briefly discussed in the previous course. James's *Principles of Psychology*, and Stout's *Manual of Psychology* will be used as text-books.

Prerequisite **Psychology A**.

**\* 2—Experimental Psychology**, introductory course. Lectures, themes, demonstrations and experiments. Professor CATTELL. Two points.

Tu. and Th. at 10.30.

Open to Seniors.

**\* 3—Experimental Psychology.** Laboratory work. Two or four hours weekly, counting as one or two points. Professor CATTELL, assisted by Mr. DAVIS.

Tu. and Th. at 9.30, 2.30–4.30.

Open to Seniors who are taking **Psychology 2**.

**† 11—Genetic Psychology**, advanced course. Professor THORNDIKE. Two points.

M. and W. at 11.30.

Open to Seniors with the consent of the Dean given only on written permission from the instructor.

### Physics

**1—General Physics.** Mechanics, heat, sound; first half-year. Magnetism, electricity, light; second half-year. Professor MALTBY and Miss COLLES. Two lectures and two hours of laboratory work. Three points.

Tu. and Th. at 11.30.

**2—Mechanics, Sound and Heat.** Miss COLLES. Two lectures and four hours of laboratory work. Three points.



Tu. and Th. at 10.30.

Open to students that have taken **Mathematics 1** and **2**, and **Physics 1**. For the year 1903-4 this course is open to students that have had advanced entrance mathematics and **Physics 1a** (as given in 1902-3), or their equivalent.

**3—Light, Magnetism and Electricity.** Professor MALTBY. Two lectures and four hours of laboratory work. Three points.

M. and W. at 11.30.

One-third of the year is devoted to light and the remainder to magnetism and electricity.

Open to students that have taken **Mathematics 1** and **2**, and **Physics 1**

**4—Physical Chemistry.** Professor MALTBY. Three lectures and two or four hours of laboratory work. Four or five points.

Hours to be arranged.

Open to students that have taken **Chemistry 1**, **Mathematics 1** and **2**, and **Physics 1**. Minor for A.M. or Ph.D. degree.

(For Theoretical Mechanics by Dr. Kasner see **Mechanics 3b**.)

Physiology. See Zoölogy

## Romance Languages and Literatures

### *French*

**A—Elementary Course.** Professor WOODWARD. Three points.

M., W., and F. at 10.30.

Prescribed for Freshmen that did not present French at entrance

**1—Grammar, Reading, Composition.** Professor WOODWARD and Dr. HOLBROOK. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course **A** or its equivalent and to students that have passed the Elementary French examination for entrance and that are not qualified for a higher course.

**2—General Introduction to the Study of French Literature. Composition.** Professor WOODWARD and Dr. HOLBROOK. Three or four points.

Section I, M., W., and F. at 3.30. Section II, M. and W. at 3.30, F. at 2.30 (and for students entering on Intermediate French, also Tu. at 3.30).

Open to students that have taken Course 1 or its equivalent, and to students that have passed the entrance examination in Intermediate or Advanced French.

**3—Historical French.** Practice in reading, writing, and speaking French. Mr. JORDAN. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course 2 or its equivalent.

**4—History of French Literature during the Seventeenth Century.** Lectures, essays. Professor WOODWARD and Mr. BARGY. Three points.

M., W., and F. at 2.30.

Open to students that have taken Course 2 with credit, or Course 3.

**5—History of French Literature during the Eighteenth Century.** Lectures, essays. Mr. BARGY. Three points.

M., W., and F. at 1.30.

Open to students that have taken Course 4 or its equivalent.

**[7—History of the Literary Movement in France during the First Half of the Nineteenth Century.** Mr. BARGY. Two points.

Open to Seniors that have taken Course 4 or its equivalent.

*Not given in 1903-4; given in 1904-5.]*

**8—History of the Literary Movement in France during the Second Half of the Nineteenth Century.** Mr. BARGY. Two points.

M. and W. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

Courses 7 and 8 are given in alternate years.

**[\* 11—History of Literary Criticism in France, with special attention to Sainte-Beuve and Brunetière.** Mr. BARGY. Two points.

Open to Seniors that have taken Course 4 or its equivalent.

*Not given in 1903-4; given in 1904-5.]*

**\* 15—French Literature in the Sixteenth Century, with special attention to Montaigne.** Mr. BARGY. Two points.

M. and W. at 3.30.

Open to Seniors that have taken Course 4 or its equivalent.

Courses 11 and 15 are given in alternate years.

**\* 13—Old French: Reading of selected extracts.** Dr. NITZE. First half-year. Two points.

Tu. and Th. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

\* 14—Old French: Reading of complete texts. Dr. NITZE. Second half-year. Two points.

Tu. and Th. at 2.30.

Open to Seniors that have taken Course 4 or its equivalent.

*Italian*

1—Elementary Course. Grammar, reading, composition. Professor SPERANZA. Three points.

M., W., and F. at 11.30.

Open to students that have taken French A and German A or their equivalents. It may not be taken at the same time with Spanish 1.

[2—Italian Literature of the Fourteenth and Fifteenth Centuries, exclusive of the Divina Commedia. Composition. Professor SPERANZA. Three points.

Open to students that have taken Course 1 or its equivalent.

*Not given in 1903-4; given in 1904-5.]*

3—Italian Literature from 1500 to 1750. Composition. Professor SPERANZA. Three points.

M., W., and F. at 1.30.

Open to students that have taken Course 1 or its equivalent.

Courses 2, 3, and 4 are given in successive years.

[4—Modern Italian Literature. Composition. Professor SPERANZA. Three points.

Open to students that have taken Course 1 or its equivalent.

*Not given in 1903-4; given in 1905-6.]*

\* 5—Critical Study of Dante's Divina Commedia. Professor SPERANZA. Two points.

Tu. and Th. at 2.30.

Open to qualified Seniors.

\* 6—Outline History of Italian Literature. Professor SPERANZA. One point.

Tu. at 3.30.

Open to qualified Seniors.

*Spanish*

1—Elementary Course. Grammar, reading, and composition. Mr. LOISEAUX. Three points.

M., W., and F. at 10.30.

Open to students that have taken French A and German A or their equivalents. It may not be taken at the same time with Italian 1.



**3—The Novela of the Golden Age.** Mr. LOISEAUX. Three points.

M., W., and F. at 11.30.

Open to students that have taken **Spanish 2a** as given in 1902-3, or its equivalent.

*Romance Philology*

**\* 1—Introduction to Romance Philology.** Professor TODD. Two points.

M. and W. at 3.30.

Open to Seniors.

**Zoölogy**

**2—Elementary Biology and Zoölogy.** Professor CRAMPTON, Mr. KELLICOTT, Miss DEDERER.

(a) General Biology and General Zoölogy. Two lectures and four hours of laboratory work. Four points.

(b) General Biology and General Zoölogy, as defined above, together with one lecture and two hours of laboratory work in Embryology during the second half-year. Five points.

(c) General Biology and General Zoölogy, as defined above, together with one lecture and two hours of laboratory work throughout the year (Histology and Physiology first half-year, Embryology second half-year). Six points.

Tu. and Th. at 1.30. Laboratory work in Biology and Zoölogy, 2.30-5.30 Tu. and Th. Hours for Histology and Physiology, and Embryology to be arranged.

Laboratory fee, \$5.

Open to Juniors and Seniors; especially designed for students that have taken **Physics 1**, **Chemistry 1**, and **Botany 51**.

This course is designed for students of psychology, physiology, geology, and medicine, as well as for those who intend to pursue zoölogy and botany.

**3 — General Zoölogy.** Advanced Course. Professor CRAMPTON, Mr. KELLICOTT, and Miss DEDERER. Three lectures, six hours of laboratory work. Six points.

Hours to be arranged.

Laboratory fee, \$5.

Open to students that have taken **Zoölogy 2** or its equivalent.

This course is designed for students intending to enter medicine, also for students of zoölogy and botany, as graduate subjects.

**51—General Physiology.** [Professor CRAMPTON] Mr. KELLICOTT.

General principles of animal Physiology and Histology. Two lectures, and four hours of demonstrations and laboratory work. Four points.

Laboratory fee, \$5.

Open to Juniors and Seniors.

This course is designed for students of zoölogy, botany, and psychology, as well as for students intending to study medicine, and may be taken together with, or subsequent to, **Zoölogy 2**.

SCHEME OF ATTENDANCE FOR UNDERGRADUATES, 1903-1904.  
MONDAY, WEDNESDAY, AND FRIDAY.

9.30	10.30	11.30	1.30	2.30	3.30	4.30
Botany 51 Greek 31 Latin A Mathematics A, I Mathematics 1-2 † Mathematics 51 [M. and W.] * Music 1 [W.] Philosophy 2 Psychology A, I-II	Anthropology 1 [M. and W.] Economics 1 English 17 [M. and W.] English 19 [M. and W.] French A * German 10a [W. and .F.] History 3 [M. and W.] History 31 [M. and W.] Latin 1 Mathematics A, II Mechanics 3b * Music 3 [F.] * Music 5 [M.] * Music 11 [W.] * Philosophy 15 [M. and W.] Spanish 1	Anthropology 7 [M. and W.] Chemistry 1 [M. and W.] English 23 [M. and W.] French 1 French 3 * German 20 [W. and F.] Greek B Greek 3 History 4 Italian 1 Latin 3 Latin 34 Mathematics A, III Mathematics 6 * Music 2 [W.] * Music 3 [F.] * Music 5 [M.] Philosophy 9 * Philosophy 20 [M. and W.] Psychology A, III Physics 3 [M. and W.] Spanish 3	Economics 2c-2b [W. and F.] English 15 [M. and W.] French 5 Geology 2 German 2, I German 3a Greek 6 Italian 3 Mathematics 3 * Music 6 [F.] * Music 10 [W.] * Philosophy 3 [M. and W.]	* Astronomy 2 [M. and W.] French 2, II [F. only.] French 4 French 8 [M. and W.] German A, II German 2, II German 21 [M. and W.] * Germanic 18 [M. and W.] Greek A Latin 4 Mathematics 5 * Music 12 [W.] Philosophy 1	French 2, I French 2, II [M. and W.] * French 15 [M. and W.] German 3b * Romance Philology 1 [M. and W.]	* Philosophy 18 [W. and F.] * Philosophy 26 [M. and Tu.]



TUESDAY, THURSDAY, AND SATURDAY.

9.30	10.30	11.30	1.30	2.30	3.30	4.30
*Anthropology 2 [Tu. and Th.] Economics A, I Economics A, II [Tu., Th. and S.] English 1-2a [Tu. and Th.] English 9 [Tu. and Th.] German A, I History A, I History A, II [Tu. and Th.] History 51 [Tu. and Th.] Latin B Mathematics A, IV *Music 7 [S.] *Philosophy 21 [Tu. and Th.] *Psychology 3 [Tu. and Th.] Psychology 10	*Anthropology 5 [Tu. and Th.] Botany 52 [Tu. and Th.] English A English 21 [Tu. and Th.] *English 48 [S.] German 4 *Germanic 12 [Tu. and Th.] History A, 11 [S. only.] History 1 [Tu. and Th.] Latin 35 [Tu. and Th.] *Music 4 [S.] *Philosophy 11 [Tu. and Th.] Physics 2 [Tu. and Th.] *Psychology 2 [Tu. and Th.]	*Astronomy 1 [Tu. and Th.] Economics A, II [Tu. and Th.] Economics 11-12 [Tu. and Th.] English 22 [Tu. and Th.] *English 48 [S.] German 6a [Tu. and Th.] Greek 7 [Th.] Latin 2 [Tu. and Th.] Latin 22 [Tu.] Latin 23 [Th.] *Music 4 [S.] *Philosophy 7 [Tu. and Th.] Physics 1 [Tu. and Th.]	Economics 3-6 [Tu. and Th.] English B [Tu. and Th.] German 8 [Tu. and Th.] German 24 [Tu. and Th.] *Philosophy 8 [Tu. and Th.] Zoology 2 [Tu. and Th.]	Sociology 15 [Tu. and Th.] *French 13-14 [Tu. and Th.] German 25 [Tu. and Th.] *Germanic 14 [Tu. and Th.] History 6 [Tu. and Th.] History 11 [Th.] *Italian 5 [Tu. and Th.] *Philosophy 4 [Tu. and Th.] *Psychology 3 [Tu. and Th.]	*Italian 6 [Tu.] Sociology 16 [Tu.] History 11 [Tu. and Th.] *Philosophy 6 [Tu. and Th.] *Psychology 3 [Tu. and Th.]	*Germanic 17 [Tu. and Th.] *Philosophy 26 [M. and Tu.]

Courses marked with an asterisk \* are given at Columbia College, those marked with a † are given at the Teachers College.

## SCHOLARSHIPS

NUMBER AND VALUE. There are altogether thirty-eight scholarships and two special funds for the aid of needy and deserving students. The value of each of these scholarships, unless otherwise stated, is \$150 annually, which sum is applicable to the fees of the year. Under certain circumstances those scholarships known as Student Scholarships may be divided between two applicants.

CHARACTER. The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations on the nomination of the Committee on Admission. The latter are awarded by the Committee of the Trustees on Scholarships, on the nomination of the corresponding Committee of the Faculty, to worthy students who have passed at least one year in college. They are held, unless otherwise stated, *for one year only*.

CONDITIONS. Two scholarships may not be held by the same person. If a student fail to maintain a grade of at least C in all courses which she pursues or if she commit a breach of good order, she shall forfeit her scholarship and, in the case of non-competitive scholarships, shall be ineligible for reelection the following year.

APPLICATION. Before the first of April of each year all applications for non-competitive scholarships, accompanied with full credentials, must be filed at the Dean's office upon special blanks to be obtained there. Candidates for the competitive scholarships to be awarded on the basis of the June examinations should, when filing an application with the Secretary of the College Entrance Examination Board (cf. p. 12), notify the Secretary of that Board of their intention to compete for a scholarship.

### Competitive Scholarships

These, subject to the foregoing general regulations for scholarships, are as follows:

1. *Open to all Students:*

Trustees' Competitive Scholarship..... I

Awarded annually by the Board of Trustees to the student who, in June, passes the best complete entrance examination in all subjects. It may be held for one year only.

Jessie Kaufmann Scholarship..... I

Established in 1902 by Mr. Julius Kaufmann in memory of his daughter Jessie Kaufmann. The annual income from \$4,000 is awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

2. *Open to Particular Students:*

Brooklyn Scholarships..... 12

Twelve in number, founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Low of a memorial building for the university library. They are open to students who have received their training in either the public or the private schools of Brooklyn, New York, and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June, without conditions, the best complete entrance examinations in all subjects. They may be held for the entire college course, but a holder, while retaining the title "Brooklyn Scholar," may transfer the income to any properly qualified candidate from Brooklyn without having her action made a matter of public record.

Lucille Pulitzer Scholarships..... 3

Founded by Mr. Joseph Pulitzer in memory of his daughter Lucille Pulitzer. They are awarded to undergraduate students entering the college from the City of New York who are found to have passed excellent entrance examinations and to be



worthy of financial aid. They may be held for the first three years of the college course only.

The first, founded in 1899, is the income of \$10,000, and will be awarded in 1903, 1906 and corresponding years. The second and third, given in 1903, each represent one half the income of \$15,000, and will be awarded in 1904 and 1905, respectively, 1907 and 1908, and corresponding years.

Non-competitive Scholarships

These, subject to the general regulations for scholarships, are as follows :

1. *Open to all Students:*

Student Scholarships.....	12
Twelve in number given by the Committee of the Trustees on Scholarships. These are supported by the income of a permanent fund that is being established and that at present amounts to \$9,580 and of the Arthur Brooks Fund (see below). The remainder is supplied by annual provision.	
Ella Weed Scholarship.....	1
Founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.	
Veltin School Scholarship.....	1
Given by the alumnae of Mlle. Veltin's School.	
Jennie B. Clarkson Scholarship.....	1
Founded in 1898 by Mrs. W. R. Clarkson.	
Emily James Smith Scholarship.....	1
Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College. It is awarded in conference with the founder.	
Anna E. Barnard Scholarship.....	1

Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded in conference with the founder.

Brearley School Scholarship..... I

Founded in 1899 by pupils and former pupils of the Brearley School.

Eliza Taylor Chisholm Memorial Scholarship..... I

Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which association reserves the privilege of precedence for such candidates as it may recommend.

Graham School Scholarship..... I

Given in 1901 by the Graham Alumnae Association.

## 2. *Open to Particular Students:*

Mrs. Donald McLean Scholarship..... I

Given in 1898 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

## 3. *Special Funds for the Aid of Needy and Deserving Students:*

Arthur Brooks Fund.

A fund of \$5,000 given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. This fund is at present applied to the maintenance of the Student Scholarships.

Fiske Scholarship Fund.

A sum of \$240, the income of a fund given by Mrs. Martha T. Fiske-Collord, placed at the disposal of the Dean of Barnard College.

## PRIZES

GENERAL CHARACTER AND REGULATIONS. The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditons named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

### Herrman Botanical Prize

A prize of \$50, founded by Mrs. Esther Herrman, will be awarded annually to the most proficient undergraduate student in botany.

### Kohn Mathematical Prize

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a Senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

### The Bunner Medal

The H. C. Bunner Gold Medal, provided for by the interest upon a fund of one thousand dollars, established in November, 1896, by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. Essays must be submitted to the President on or before May 1. The award will be made by a committee from the Division of English and Literature, to be appointed by the President. The subject for the essay to be handed in May 1, 1903, is "Literary Influences that Affected Hawthorne and Poe"; for 1904, "Style in the American State Papers of the Eighteenth Century"; for 1905, "American Tragedy"; for 1906, "Thomas Jefferson as a Man of Letters."

## HONORS

GENERAL CHARACTER AND REGULATIONS. Honors are of two kinds, general and departmental. The former are assigned for general excellence in the work of a college year; the



latter as the result of special work in particular branches of study, in accordance with the conditions named below. Each student to whom honors are awarded in any department will receive, immediately after Commencement, a certificate of such award, under the seal of the University and bearing the signatures of the President and the Dean. No honors will be awarded to a student who falls below grade C in any course during the year in which she is a candidate.

### General Honors

General Honors are of two grades, Highest General Honors and General Honors, and are assigned not later than July 1 of each year, without application, to students who are not holders of scholarships, under the following conditions:

*Highest General Honors* are awarded to students whose work in the previous college year entitles them to high academic distinction.

*General Honors* are assigned to students of marked excellence who have not won Highest General Honors.

### Departmental Honors

Departmental Honors are awarded at the end of the second year, the end of the third year, and the end of the course, and are known respectively as Sophomore Honors, Junior Honors, and Final Honors.

Each candidate for honors must give notice of the fact to the head of the department concerned not later than the beginning of the second half of the year in which she is to present herself for examination. No courses qualify for honors except those which have been taken in the regular college classes. Substitutes for the courses specified below for honors may be allowed by the Faculty on petition, when good cause is shown.

### Sophomore Honors

Sophomore Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, and mathematics.

(a) CLASSICS—Candidates for Sophomore Honors in classics must have taken Greek **B** and **3** and Latin **A** or **B**

and 1 for at least three hours a week, in both Freshman and Sophomore years, and must not have been classed below grade C in Greek B and Latin A or B, or below grade B in Greek 3 and Latin 1. In addition they will be examined in reading Greek and Latin at sight, in Greek and Latin prose composition, and in some special subject connected with the Greek or Latin language or literature, the same to be announced on or before December 1 of each year.

(b) GERMANIC LANGUAGES AND LITERATURES—Candidates for Sophomore Honors in German must have taken at least two courses in German, chosen from 2, 3, 4, and 8, and must not have been classed below grade B in any of them. They will also be examined in reading German at sight, in German conversation, and in some special subject connected with the German language and literature, the same to be announced on or before December 1 of each year.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Sophomore Honors in Romance languages must have taken at least two courses in French, chosen from 1, 2, 3, and 4, and must not have been classed below grade B in any of them. They will also be examined in reading French at sight, in French conversation, and in some special subject connected with the French language or literature, the same to be announced on or before December 1 of each year.

They may, with the consent and approval of the Department of the Romance Languages and Literatures, be allowed to substitute courses in Italian for the courses in French above mentioned.

(d) ENGLISH—Candidates for Sophomore Honors in English must have attained a grade of at least B in English B and in an elective course in English. They must offer special work in connection with one of these courses. The subject of such special work shall be defined by the professor in charge, on conference with the candidate; and the honors shall be given, on special examination, to those candidates that attain grade A in the special work.

(e) MATHEMATICS—Candidates for Sophomore Honors in Mathematics must have taken mathematics during the Sophomore year and not have been classed below grade B

in the course or courses taken, and will also be required to pass an examination on such additional work as may be announced by the Department of Mathematics on or before December 1 of each year.

### Junior Honors

Junior Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, mathematics, physics and chemistry, and history.

Candidates for Junior Honors in any subject must either have gained Sophomore Honors in the same subject; or have taken the courses, and received the grade necessary to qualify them to compete for Sophomore Honors therein; or have been reported in grade A in all of the courses taken during Junior year in the department in which application for honors is made.

(a) CLASSICS—Candidates for Junior Honors must have taken courses in the department of Classical Philology amounting to at least three hours a week in both Greek and Latin, and must not have been classed below grade B in any such course. They will also be required to pass an examination on such additional matter as may be announced by the Department of Classical Philology on or before December 1 of each year.

(b) GERMANIC LANGUAGES AND LITERATURES—Candidates for Junior Honors in German must have taken two additional courses in the Germanic languages, and must not have been classed below grade B in any of them. They will also be required to pass an examination on some special subject selected by the Department of the Germanic Languages and Literatures, and announced on or before December 1 of each year.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Junior Honors in Romance languages must have taken courses amounting to at least three hours a week of additional work in French, and must not have been classed below grade B in any of them. They will also be required to pass an examination on some special subject selected by the Department of the Romance Languages and Literatures, and announced on or before December 1 of each year.



They may, with the consent and approval of the Department of the Romance Languages and Literatures, be allowed to substitute courses in Italian for the courses in French above mentioned.

(*d*) ENGLISH—Candidates for Junior Honors in English must select at least two courses in English and must offer special work in connection with one of these courses. The subject of such special work shall be defined each year by the professor in charge, on conference with the candidate; and the honors shall be awarded to those candidates who attain grade A in the special work, without falling below grade B in any other course or courses in English elected during the year.

(*e*) MATHEMATICS—Candidates for Junior Honors must have taken Mathematics 6, and must have pursued mathematics during the Junior year and not have been classed below grade B in any of the courses taken. They will also be required to pass a special examination on some subject announced by the Department of Mathematics on or before December 1 of each year.

(*f*) PHYSICS AND CHEMISTRY—Candidates for Junior Honors must have taken a course in chemistry and one in physics during the Junior year, and must not have been classed below grade B in either of them. They will also be required to pass a special examination in some subject agreed upon by the Departments of Physics and Chemistry, and announced on or before December 1 of each year.

(*g*) HISTORY—Candidates for Junior Honors must have taken History A, and three additional courses, and must not have been classed below grade B in any of them. They will also be required to pass a special examination in some subject announced by the Professor of History on or before December 1 of each year.

### Final Honors

Final Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, mathematics, physics and chemistry, zoölogy and botany, history, economics and social science, and philosophy.

Candidates for Final Honors in any subject must either have gained Junior Honors in the same subject; or have taken the courses and received the grade necessary to qualify them to compete for Junior Honors therein; or have been reported in grade A in all of the courses taken during Senior year in the department in which application for honors is made.

(a) CLASSICS—Candidates for Final Honors must have taken courses in the departments of Greek and Latin, in the Senior year, amounting to at least six hours a week, and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject announced by the Department of Classical Philology on or before December 1 preceding, and to pass an examination in Greek and Latin composition and sight-reading.

(b) GERMANIC LANGUAGES AND LITERATURES—Candidates for Final Honors in the Germanic languages must have taken additional courses amounting to not less than four hours a week in the Germanic languages, and must not have been classed below grade B in any of them. They will be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject selected by the Department of the Germanic Languages and Literatures, and announced on or before December 1 preceding. They must also show their ability to read with ease ordinary French.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Final Honors in Romance Languages must have taken additional courses in the Romance languages amounting to not less than four hours a week, and must not have been classed below grade B in any of them. They will be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject selected by the Department of the Romance Languages and Literatures, and announced on or before December 1 preceding. They must also show their ability to read German with ease.

(d) ENGLISH—Candidates for Final Honors in English must elect at least two courses in English and must offer special

work in connection with one of these courses. The subject of such special work in each course shall be defined by the professor in charge on conference with the candidate; and the honors shall be given on special examination to those candidates who attain grade A in the special examination without falling below grade B in any other course or courses in English elected during the year. As part of her special work, each candidate must submit, on or before May 1, an essay of not less than 3000 words, dealing with some aspect of the subject in which she is to be examined.

(e) MATHEMATICS—Candidates for Final Honors must have taken two courses chosen from Mathematics 5, 7, 8, and Mechanics 3b, and must not have been classed below grade B in either of them. They will also be required to submit, on or before May 1, special work on some subject announced by the Department of Mathematics on or before December 1 preceding.

(f) PHYSICS AND CHEMISTRY—Candidates for Final Honors must have taken at least one additional course in physics and at least one in chemistry; and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, a satisfactory essay on some subject agreed upon by the Departments of Physics and Chemistry, and announced on or before December 1 preceding.

(g) BOTANY AND ZOÖLOGY—Candidates for Final Honors must have taken at least one course in chemistry, physics, or geology, one in zoölogy, and courses in botany aggregating twelve points in value; or one in chemistry, physics, or geology, one in botany, and courses in zoölogy aggregating twelve points in value. Candidates must not have been classed below the grade of B in any of the above courses. They will also be required to submit, on or before May 1, a satisfactory essay on some subject announced by the Department of Botany or the Department of Zoölogy on or before December 1 preceding.

(h) HISTORY—Candidates for Final Honors must have taken at least three additional courses in history, and must not have been classed below grade B in any of them. They will



also be required to submit, on or before May 1, a satisfactory essay containing not less than 5000 words on some subject announced by the Professor of History on or before December 1 preceding.

(i) **ECONOMICS AND SOCIAL SCIENCE**—Candidates for Final Honors must have taken Economics 1, and must not have been classed below grade B in either that or Economics A. They must also have taken all the courses in economics and finance offered to Seniors, and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject agreed upon by the Professors of Economics and Social Science, and announced on or before December 1 preceding.

(j) **PHILOSOPHY**—Candidates for Final Honors, must not have been classed below grade B in Psychology A, and must have taken at least three courses for an entire year from among those offered to Seniors by the Departments of Philosophy and Psychology and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject assigned by the Professors of Philosophy, Ethics, and Psychology, and announced on or before December 1 preceding.

### THE UNIVERSITY LIBRARY

The University Library is open each week day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 10 P.M. July–September; and until 11 P.M. October–June. All officers, students, and graduates of all departments of the University have free access to the Library and may draw books for home use. Undergraduates and alumni may draw books not exceeding three volumes in number for a period not exceeding two weeks, subject to renewal in proper cases.

A reference library of about 10,000 volumes of carefully selected reference books and of the most important works on all subjects in standard editions, representing the leading

authors in all literatures, is placed in the general reading-room directly accessible to all readers.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

The Library contains over 330,000 volumes, exclusive of unbound pamphlets and duplicates. The additions to the Library for the past five years have averaged over 18,000 volumes annually.

### CHAPEL SERVICE

Chapel service is held on Tuesday and Friday of each week at half-past twelve in the College assembly room. The service lasts about twenty minutes and is usually conducted by some clergyman of the city, or by some officer of the University. Attendance is entirely voluntary.

## ACADEMIC CALENDAR

- 1903—Aug. 26—Wednesday. Last day for filing applications for deficiency examinations.
- Sept. 7—Monday. Last day for filing applications for September entrance examinations by candidates for admission.
- Sept. 14—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.
- Sept. 16—Wednesday. Registration begins.
- Sept. 22—Tuesday. Registration for students previously matriculated ceases. Later applications received only upon payment of an additional fee of \$5.
- Sept. 23—Wednesday. First half-year, 15th year, begins. Registration for students matriculating for the first time ceases. Later applications received only upon payment of an additional fee of \$5.
- Oct. 24—Saturday. Last day for payment of first term fees.
- Nov. 3—Tuesday. Election Day, holiday.
- Nov. 17—Tuesday. Meeting of University Council.
- Nov. 26—Thursday  
to
- Nov. 28—Saturday, inclusive. Thanksgiving Day holidays.
- Dec. 15—Tuesday. Last day for notifying the Dean of the choice of subjects for graduation theses.
- Dec. 21—Monday  
to



- 1904—Jan. 2—Saturday, inclusive. Christmas holidays.  
Jan. 4—Monday. Exercises of the College resumed.  
Jan. 20—Wednesday. Mid-year examinations begin.  
Jan. 30—Saturday. First half-year ends.  
Feb. 1—Monday. Second half-year begins.  
Feb. 16—Tuesday. Meeting of University Council.  
Feb. 20—Saturday. Last day for payment of second term fees.  
Mar. 31—Thursday  
to  
Apr. 4—Monday, inclusive. Easter recess for all schools and departments of the University at Morningside Heights.  
Apr. 1—Friday. Last day for filing applications for scholarships.  
Apr. 2—Saturday. Last day for handing in graduation theses.  
Apr. 19—Tuesday. Meeting of University Council.  
May 18—Wednesday. Final examinations begin.  
May 30—Monday. Memorial Day, holiday.  
June 3—Friday. Class Day.  
June 5—Sunday. Baccalaureate Sermon.  
June 6—Monday. Last day for filing lists of elective courses.  
June 8—Wednesday. Commencement Day.  
June 20—Monday. Examinations of the College Entrance Examination Board begin. For dates for filing applications see Document No. 11, issued by the Board, Post-Office Sub-Station 84, New York City, N. Y.  
Aug. 31—Wednesday. Last day for filing applications for deficiency examination.  
Sept. 12—Monday. Last day for filing applications for September entrance examinations by candidates for admission.

Sept. 19—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.

Sept. 21—Wednesday. Registration begins.

Sept. 27—Tuesday. Registration for students previously matriculated ceases. Later applications received only upon payment of an additional fee of \$5.

Sept. 28—Wednesday. First half-year, 16th year, begins. Registration for students matriculating for the first time ceases. Later applications received only upon payment of an additional fee of \$5.

## REGISTER OF STUDENTS

### SENIOR CLASS

Addoms, Jessie Alice.....	272a Halsey St., Brooklyn.
Alsop, Gulielma Fell.....	96 Remsen St., Brooklyn.
Ball, Marion Elizabeth Pruyn.....	606 West 113th Street.
Bamberger, Alice Clara Judith.....	Hotel Majestic.
Cahn, Anita Gella.....	115 West 131st Street.
Cheesman, Florence Palmer.....	171 West 95th Street.
Clark, Gertrude Helen.....	258 West 78th Street.
Clough, Bertha.....	Lock Haven, Pa.
Cohen, Helen Louise.....	9 West 91st Street.
Colt, Mary Elizabeth Scovell.....	Buffalo, N. Y.
Daniels, Harriet McDoual.....	Clinton, N. Y.
Fitch, Ellice Heaton.....	273 West 84th Street.
Fry, Edna Louise.....	408 West 150th Street.
Groff, Mary.....	Jersey City, N. J.
Gruening, Clara Emily.....	36 East 57th Street.
Harrison, Mary Fredericka.....	522 Lafayette Ave., Brooklyn.
Herzfeld, Elsa Goldina.....	147 West 86th Street.
Holt, Sarah Adaline.....	Belmont, Mass.
Hope, Ida May.....	130 West 123d Street.
Horn, Elizabeth.....	Belvidere, N. J.
Howard, Clare MacIlleen.....	415 West 118th Street.
Howe, Ruth Bouton.....	Geneseo, N. Y.
Johnson, May Amerman.....	356 West 145th Street.
Jones, Edna Blanche.....	43 Morton Street.
King, Helen Louise.....	360 West 117th Street.
Kohn, Lucile.....	10 East 60th Street.
Kroeber, Elsbeth.....	849 West End Avenue.
Latham, Marion Elizabeth.....	417 West 148th Street.
Miller, Jean Wallace.....	314 West 104th Street.
Newton, Ethel Blanchard.....	544 Bedford Ave., Brooklyn.
Pool, Ethel Manter.....	267 West 79th Street.
Poole, Katherine Ellen.....	Faribault, Minn.
Rauh, Florence Ethel.....	54 East 73d Street.
Robinson, Amelia Maude.....	Sayville, N. Y.
Rogers, Helen Miles.....	Fond du Lac, Wis.
Rushmore, Ellen Riley.....	Plainfield, N. J.
Seguine, Laura Randolph.....	Rosebank, N. Y.
Shainwald, Maisie Seville.....	661 Fifth Avenue.
Sherman, Lucy Fidelia.....	Peekskill, N. Y.



Skinner, Madeleine Dayrell.....	501 West 120th Street.
Stern, Irma Regina.....	993 Fifth Avenue.
Tanzer, Helen Henrietta.....	294 West 92d Street.
Thompson, Bessie Ilsley.....	21 First Pl., Brooklyn.
Toscano, Louise Josephine Colvin.....	Astoria, N. Y.
Van Cise, Laura Knowles.....	Summit, N. J.
Wallach, Adele Nettie.....	15 West 91st Street.
Walters, Elizabeth Roe.....	7 West 103d Street.
Ware, Anna Goodwin.....	1285 Madison Avenue.
Wedemeyer, Marie Henrietta Detlef.....	Wheatland, Wyo.
Wilcox, Ethel Dodge.....	Yonkers, N. Y.
Senior Class.....	50

## JUNIOR CLASS

Adams, Jessie Blanche.....	416 West 118th Street.
Adey, Mildred Hunt.....	445 Lenox Avenue.
Appell, Edith May.....	Mt. Vernon, N. Y.
Applegate, Clara Marguerite.....	Newburgh, N. Y.
Arnaud, Lucy Giulia.....	672 Tenth St., Brooklyn.
Bacon, Majorie Kate.....	1036 Bergen St., Brooklyn.
Barker, Sadie Rose.....	Irvington, N. Y.
Beifeld, Minnie Margaret.....	302 West 138th Street.
Boulger, Minnie Randolph.....	53 St. Nicholas Avenue.
Bushong, Elsie Grace.....	Reading, Pa.
Butts, Edith.....	Hoboken, N. J.
Cahen, Elfie Julia.....	353 Central Park West.
Campbell, Flora.....	Plainfield, N. J.
Claffy, Margaret Loretta Charles.....	27 Tompkins Pl., Brooklyn.
Compton, Mabel Grace.....	19 Halsey St., Brooklyn.
Curtis, Sarah Theodora.....	2787 Broadway.
Denton, Mabel.....	Paterson, N. J.
Doty, Katharine Swift.....	553 West 141st Street.
Egleston, Jean Dunbar.....	Elizabeth, N. J.
Einstein, Milly Judith.....	44 West 53d Street.
Elting, Helen Stickney.....	Yonkers, N. Y.
Embury, Lucy Bates.....	Englewood, N. J.
Enright, Emma Mulford.....	Freehold, N. J.
Erskine, Helen.....	306 West 93d Street.
Fischer, Helena Marshall.....	129 West 70th Street.
Fountain, Charlotte Boyd.....	Jersey City, N. J.
Frothingham, Mary Katharine.....	60 West 68th Street.
Gallert, Doris Paula.....	48 West 119th Street.
Granger, Edith Adell.....	Mt. Vernon, N. Y.
Gray, Mabelle Retta.....	269 Union St., Brooklyn.
Haas, Edith Joan.....	7 East 69th Street.
Haskell, Juliana (Mrs. H. S. Haskell).....	2 St. Nicholas Terrace.
Hawes, Jane Jewett.....	New Rochelle, N. Y.

# SOPHOMORE CLASS

103

Haydock, Amelia.....	501 West 149th Street.
Hill, Harriet Newell.....	633 West 142d Street.
Hirsch, Selma Helen.....	1140 Madison Avenue.
Hirshbach, Helen.....	154 West 75th Street.
Hood, Florence Mifflin.....	Baltimore, Md.
Hoyt, Jessie Fenton.....	17 East 95th Street.
Hubbard, Florence Eddy.....	179 West 76th Street.
Hughan, Ethel Majorie.....	663 Quincy St., Brooklyn.
Hunt, Martha Marguerita.....	Jersey City, N. J.
Johnston, Rose.....	Middletown, O.
Leers, Hilma.....	Paterson, N. J.
Levy, Grace.....	2030 Broadway.
Lewis, Ida Ethel.....	206 West 103d Street.
Lexow, Caroline.....	Nyack, N. Y.
Lichten, Dora Elsie.....	1211 Madison Avenue.
Loomis, Jean Herring.....	1230 Amsterdam Avenue.
Lyon, Romola.....	Englewood, N. J.
McCormick, Rose Marie.....	Perth Amboy, N. J.
McLean, Elizabeth.....	Jersey City, N. J.
Metcalf, Lizzette May.....	342 East 15th Street.
Miller, Lena Adele.....	White Plains, N. Y.
Miller, Mildred Elsegood.....	64 Pennsylvania Ave., Brooklyn.
Morgan, Charlotte Elizabeth.....	1173 Bushwick Ave., Brooklyn.
Nevins, Dora Russell.....	682 President St., Brooklyn.
Nutt, Rachel Evans.....	Cliffside, N. J.
Parker, May Appleton.....	797 Madison Avenue.
Peters, Louise Edgar.....	Englewood, N. J.
Popper, Hilda.....	260 West 93d Street.
Rix, Mary Louise.....	Lebanon, N. H.
Seymour, Josephine.....	256 Penn St., Brooklyn.
Shelley, Sarah Ellen.....	Mechanicsburg, Pa.
Stern, Ruth Marjorie.....	29 West 87th Street.
Stobo, Jeannette Russell.....	Hotel St. Andrew.
Stone, Margaret Holmes.....	254 West 93d Street.
Swan, Bessie Louise.....	Mt. Vernon, N. Y.
Thomas, Martha Ellen.....	Yonkers, N. Y.
Van Ingen, Edith Gifford.....	135 Henry St., Brooklyn.
Van Slyke, Alida Margaret.....	New Baltimore, N. Y.
Waring, Anna Tallman.....	Piermont, N. Y.
Werts, Harriet Estelle.....	Jersey City, N. J.
Wick, Jeannette.....	Elmhurst, N. Y.
Junior Class.....	74.

# SOPHOMORE CLASS

Anderson, Helen Beatrice.....	Astoria, N. Y.
Bassett, Elizabeth Waddington.....	26 West 129th Street.
Bennett, Georgina Grace.....	Hackensack, N. J.

Biggin, Florence Irene.....	Middletown, N. Y.
Boorman, Elizabeth Stanford Sayre.....	Fort Washington, N. Y.
Boss, Anna Marie.....	161 East 82d Street.
Bovard, Luella Lillian.....	661 East 141st Street.
Brown, Ann Eliza.....	Port Richmond, N. Y.
Buckingham, Elizabeth.....	632 West 148th Street.
Byrne, Margaret Cecilia.....	338 Decatur St., Brooklyn.
Calhoun, Emma Shaw.....	201 West 100th Street.
Cameron, Samuella.....	239 West 136th Street.
Caples, Edith Jessie (Mrs. B. H. Caples).....	527 West 124th Street.
Carpenter, Lulu Jane.....	Port Chester, N. Y.
Cathcart, Gertrude Louise.....	Plainfield, N. J.
Cohen, Helen Nessa.....	177 East 93d Street.
Conover, Grace Morrelle.....	137 West 127th Street.
Cooley, Helen Wilking.....	249 West 14th Street.
Day, Elizabeth.....	1146 Tinton Avenue.
Dietz, Edith Augusta.....	136 East 43d Street.
Donnelly, Marguerite.....	412 West 149th Street.
Dorrian, Cecil Inslee.....	2340 Seventh Avenue.
Draper, Alice Olin.....	18 West 8th Street.
Ehrich, Elsie.....	54 West 75th Street.
Farrelly, Grace Marie.....	224 West 137th Street.
Fettretch, Edith Berrell.....	803 Lexington Avenue.
Fisher, Annie Fuller.....	Mt. Vernon, N. Y.
Fletcher, Sallie Faulkner.....	278 Prospect Pl., Brooklyn.
Forman, Anita Grace.....	2394 Seventh Avenue.
Franklin, Marion.....	17 East 129th Street.
Goldsmith, Evelyn Miriam.....	50 West 75th Street.
Goodyear, Katharine Francis.....	1 West 106th Street.
Gray, Mary Gould.....	246 Fourteenth St., Brooklyn.
Handy, Edith Berkeley.....	New Brighton, N. Y.
Heidenheimer, Alyne Bendit.....	61 East 72d Street.
Hendricks, Ethel.....	18 East 80th Street.
Heyman, Blanche.....	134 West 131st Street.
Hochheimer, Helen Alice.....	1311 Madison Avenue.
Hoffman, Margie Ethel.....	356 Henry St., Brooklyn.
Hoyt, Sarah Fenton.....	17 East 95th Street.
Hutchinson, Emilie Josephine.....	287 Carroll St., Brooklyn.
Kaplan, Carrie.....	98 East Broadway.
Kennedy, Anna Josephine.....	361 Fourth St., Brooklyn.
Lee, Mary Day.....	247 West 104th Street.
Levy, Edwina Leah.....	122 East 76th Street.
Lock, Mary.....	Plainfield, N. J.
Lyall, Pamela Warren.....	367 West 20th Street.
McKee, Elsa DuBois.....	557 West 124th Street.
Meyer, Florence Alma.....	Park Hill, Yonkers, N. Y.
Meyer, Jeannette.....	Hotel Albert.



## FRESHMAN CLASS

105

Mott, Isabelle.....	221 West 123d Street.
Munroe, Eleanora Louise.....	262 West 122d Street.
Murray, Lily Sylvester.....	Montclair, N. J.
Nye, Florence Isabelle.....	220 Riverside Drive.
Palliser, Helen Letitia.....	Dobbs Ferry, N. Y.
Purdon, Frances Hope.....	606 West 114th Street.
Reeder, Ruth Angeline.....	Hastings-on-Hudson, N. Y.
Reiley, Anna Campbell.....	211 West 102d Street.
Reitlinger, Blanche Hortense.....	66 West 68th Street.
Russell, Bessie Adaline.....	324 West 83d Street.
Salik, Augusta.....	214 Rivington Street.
Schultz, Nina.....	127 West 85th Street.
Scott, Bessie Trimble.....	Passaic, N. J.
Shanley, Mildred Ethel.....	Litchfield, Conn.
Sinnott, Mary.....	66 East 129th Street.
Smith, Alice Van Woert.....	183 West 135th Street.
Smith, Marguerite.....	535 West 159th Street.
Solomon, Charlotte Louise.....	Syracuse, N. Y.
Sparkman, Lydia Holt.....	Paterson, N. J.
Staber, Hilda Louise.....	360 Clinton St., Brooklyn.
Talbot, Abigail Adams.....	Flushing, N. Y.
Tattershall, Anna Sarah.....	White Haven, Pa.
Thompson, Martha.....	166 West 97th Street.
Thorp, Anna Frances Muriel.....	Paterson, N. J.
Trier, Betty.....	703 Madison St., Brooklyn.
Van Buren, Irene.....	Shortsville, N. Y.
Welle, Edith.....	Paterson, N. J.
Wheeler, Hélène Louise.....	411 West 145th Street.
Sophomore Class.....	78

## FRESHMAN CLASS

Beeckman, Florence Louise.....	141 West 104th Street.
Bell, Florence Emily.....	Flushing, N. Y.
Blackburn, Louisa Powell.....	Baltimore, Md.
Blake, Ellyn Louise.....	West New Brighton, N. Y.
Boyd, Virginia Tucker.....	40 Perry Street.
Brewster, Alice Dorothy.....	439 Manhattan Avenue.
Browne, Mabel Emma.....	1539 Pacific St., Brooklyn.
Burr, Emily Thorp Stedman.....	Greenwich, Conn.
Chapman, Emma Augusta.....	Jersey City, N. J.
Chipperfield, Faith de la Tour.....	103 Hawthorne St., Brooklyn.
Condit, Jessie Parsons.....	East Orange, N. J.
Darling, Nellie Oakes.....	Stony Brook, N. Y.
Donigan, Elizabeth Amanda.....	Mt. Vernon, N. Y.
Dorsett, Lovenia Adele.....	Richmond Hill, N. Y.
Eastman, Lucy Putnam.....	4 East 70th Street.
Elleau, Augustine Louise.....	Newark, N. J.

Ernst, Matilda.....	Huntington, N. Y.
Erstein, Rose.....	43 East 63d Street.
Evans, Elizabeth Grace.....	418 West 160th Street.
Fairchild, Ruth Deane.....	New Britain, Conn.
Farmer, Mildred Blanche.....	New Rochelle, N. Y.
Fontaine, Marie Louise.....	541 West 124th Street.
Foshay, Florence Elizabeth.....	Port Chester, N. Y.
Frank, Edna Emilie.....	138 West 78th Street.
Frankfield, Helen.....	26 West 85th Street.
Freed, Julia Heulat.....	129 West 87th Street.
Fricke, Willa May.....	955 West End Avenue.
Fried, Rosa.....	225 East 63d Street.
Gelbach, Marie.....	Hoboken, N. J.
Greenwood, Eleanor Maud.....	233 West 138th Street.
Haan, Helen Ilone.....	57 West 75th Street.
Hall, Caroline Dumont.....	Mt. Vernon, N. Y.
Hart, Adelaide.....	1230 Amsterdam Avenue.
Haskell, Alice.....	Providence, R. I.
Haynes, Jessie Elizabeth.....	Richmond Hill, N. Y.
Herrmann, Senta.....	147 West 103d Street.
Hill, Amelia Leavitt.....	335 West 84th Street.
Holden Eleanor Sanford.....	Madison, N. J.
Howard, Lillian Alice Catherine.....	University Heights, N. Y.
James, Bertha Clarkson.....	Rahway, N. J.
Johnston, Marjorie.....	Pelham, N. Y.
Knox, Ethel May.....	256 West 123d Street.
Kohut, Elsie.....	44 West 58th Street.
Leland, Abby Porter.....	Mechanicville, N. Y.
Lewis, Bessie Lena.....	Mt. Vernon, N. Y.
Lilienthal, Florence.....	60 West 129th Street.
MacColl, Grace Beatrice.....	410 West 115th Street.
MacColl, Jeannette.....	410 West 115th Street.
Mahony, Adele Margaret.....	113 East 55th Street.
Marks, Blanche Florence.....	1034 Lexington Avenue.
Mayer, Fanny.....	41 East 72d Street.
Mayo-Smith, Lucie.....	305 West 77th Street.
Morgenthau, Beatrice Frances.....	248 West 103d Street.
Murtha, Mary Washburn.....	539 West 148th Street.
Newland, Anna May.....	550 West 113th Street.
Nies, Minnie Antoinette.....	Paterson, N. J.
Paddock, Josephine.....	141 West 70th Street.
Parker, Laura Hillier.....	217 East 27th Street.
Plate, Hazel Hudnall.....	416 West 118th Street.
Post, Catharine Mary.....	Woodside, N. Y.
Post, Elizabeth Smith.....	Woodside, N. Y.
Pratt, Josephine Southworth.....	New Rochelle, N. Y.
Price, Nina Marguerite.....	19 East 48th Street.

Purdue, Olive Condit.....	East Orange, N. Y.
Ralph, Virginia.....	253 West 71st Street.
Reaney, Ella Jane.....	218 West 94th Street
Rheinstein, Alice Marion.....	55 West 89th Street.
Rich, Mabel Elizabeth Weiss.....	Mt. Vernon, N. Y.
Rohr, Madeline Dorothea.....	Westchester, N. Y.
Rosenberg, Alma Emilie.....	14 West 88th Street.
Rossbach, Irma.....	1 West 86th Street.
Russell, Belle Katharine.....	119 Pacific St., Brooklyn.
Schlageter, Florence.....	Paterson, N. J.
Schmidt, Clara Helene.....	Mt. Vernon, N. Y.
Schuessler, Helena.....	Closter, N. J.
Schuessler, Matilda.....	Closter, N. J.
Secor, Mabel Roberts.....	Arlington, N. J.
Seeligman, Irma Scott.....	231 West 129th Street.
Seward, Bertha Woodward.....	Goshen, N. Y.
Shinn, Natalie Ida.....	Pelham Manor, N. Y.
Simons, Marion Loder.....	Port Chester, N. Y.
Somborn, Edith.....	125 East 69th Street.
Stapf, Florence May.....	Dunkirk, N. Y.
Stiebritz, Elsie.....	Long Island City, N. Y.
Stitt, Edna Walmsley.....	156 West 93d Street.
Taylor, Virginia.....	East Orange, N. J.
Toms, Elizabeth Iverson.....	1581 Washington Avenue.
Watson, Ethel Agnes.....	Hackensack, N. J.
Wells, Mildred Adele.....	East Orange, N. J.
Wiesner, Lillian Adelaide.....	251 West 100th Street.
Wilcox, Harriet Leslie.....	Yonkers, N. Y.
Williams, Helen Isabel.....	1264 Boston Road.
Freshman Class.....	.92.

## SPECIAL STUDENTS

Beach, Florence Esther.....	Ottawa, Kan.
Bernays, Judith.....	121 West 119th Street.
Brackett, Anna Speed.....	604 West 115th Street.
Bradford, Elizabeth Elliot.....	Columbus, O.
Davidson, Frida.....	46 East 65th Street.
Durant, Agnes Lacy.....	603 West End Avenue.
Earle, Ruth.....	600 West 114th Street.
Ehrich, Lilian Ida.....	54 West 75th Street.
Einstein, Amy.....	39 West 57th Street.
Emerson, Helena Titus.....	81 Madison Avenue.
Fawcett, Edna Hague.....	Washington, D. C.
Fisher, Mazie S. (Mrs. N. K. Fisher).....	1 West 92d Street.
Gano, Lina E.....	526 West 114th Street.
Glenn, Helen Mildred Lewis.....	231 West 96th Street.
Grabau, Mary Antin (Mrs. A. W. Grabau).....	527 West 124th Street.



Grandin, Frances Barberie.....	116 West 76th Street.
Guillaudeu, Florence Dudley.....	257 West 73d Street.
Harriman, Mary.....	1 East 55th Street.
Henderson, Nathalie.....	27 East 65th Street.
Herts, Rhoda Leonora.....	Hotel Marie Antoinette.
Holbrook, Marion Goodhue.....	16 West 130th Street.
Jones, Margaret Movers.....	Chazy, N. Y.
Leland, Fannibelle.....	943 Lexington Avenue.
Loew, Fredericka.....	10 Amsterdam Avenue.
Macdonald, Evelyn Blunt.....	Ward's Island, N. Y.
Mills, Elizabeth Taylor.....	442 First St., Brooklyn.
Moen, Mary Warren.....	606 West 115th Street.
Neuman, Henrietta.....	70 East 81st Street.
Nichols, Helen Slocum.....	42 West 11th Street.
Richardson, Bertha June.....	Cleveland, O.
Rosenblatt, Bella.....	55 East 92d Street.
Seibert, Jeannette Rowland.....	640 Putnam Ave., Brooklyn.
Steinhardt, Edna.....	Hotel Majestic.
von Unwerth, Frida.....	Kansas City, Mo.
Warrender, Josephine Isabella Graham.....	Newark, N. J.
Wood, Eleanor Marion.....	Upper Montclair, N. J.
Special Students.....	36.

## STUDENTS OF MUSIC

Arms, Clara Louise.....	Chicago, Ill.
Bowden, Helen Elizabeth Snasdell.....	Jersey City, N. J.
Coe, Carlotta Toothe (Mrs. W. E. Coe).....	Madison, N. J.
Coons, Orrie Mae.....	246 West 129th Street.
Costikyan, Arousiag.....	East Orange, N. J.
Crocker, Mary Sampson.....	318 West 84th Street.
Dixon, Mary Agnes (Mrs. M. L. Dixon).....	230 West 123d Street.
Erving, Eleanor Cecilia.....	17 West 50th Street.
Finch, Ruth Afton.....	Huntsville, Tex.
Goldmark, Thekla R. R. (Mrs. J. Goldmark).....	331 West 83d Street.
Gottschalk, Clara Aimée.....	178 West 81st Street.
Hall, Marie Frederica.....	43 Downing St. Brooklyn.
Hammond, Bessie Ellen.....	Bolivar, Pa.
Jones, Marion.....	237 East 17th Street.
Keating, Ethel.....	Columbus, O.
Knox, Elfleda Ethel (Mrs. E. E. Knox).....	Hoboken, N. J.
Mooney, Mary Agnes.....	75 Morton Street.
Moore, Louise Marguerite.....	833 Madison Avenue.
Neergaard, Golla Betzy de.....	Karlfalt, Sweden.
Pratel, Harriet.....	69 West 71st Street.
Remick, Bertha.....	Sharon, Mass.
Rochester, Anna.....	Englewood, N. J.
Ryshpan, Bertha.....	262 East Broadway.

Sinclair, Jean Stuyvesant.....	564 Hancock St., Brooklyn.
Sloane, Marion Wallace.....	Newark, N. J.
Underhill, Margaret V.....	259 West 84th Street.
Van Ingen, Helen.....	135 Henry St., Brooklyn.
Van Nest, Mary Vanderpool.....	Glenridge, N. J.
White, Margaret Cecilia.....	Yonkers, N. Y.
Music Students.....	29.

## STUDENTS FROM TEACHERS COLLEGE

Abrams, Effie Murray.....	Hartford, Conn.
Allis, Luella Virginia.....	Syracuse, N. Y.
Auerbach, Matilda.....	73 East 90th Street.
Briggs, Eva Eliza.....	Potsdam, N. Y.
Butler, Florence Louise.....	Orange, N. J.
Carss, Elizabeth.....	537 West 141st Street.
Cazin, Adele.....	Hoboken, N. J.
Conner, Mary Emma.....	Scranton, Pa.
Cooper, Charlotte Brown.....	Louisville, Ky.
Dowling, Ruth Elizabeth.....	Yonkers, N. Y.
Elkus, Savilla Alice.....	45 East 61st Street.
Fridenberg, Pauline.....	114 West 126th Street.
Frost, Helen Vincent.....	Mt. Vernon, N. Y.
Grant, Emma Collin.....	Summit, N. J.
Holt, Edith.....	Bloomfield, N. J.
Jarvie, Margaret Scott.....	1230 Amsterdam Avenue.
Keil, Caroline Elizabeth.....	402 East 79th Street.
Kennedy, Anna.....	Little Silver, N. J.
Lester, Caroline Foote.....	Seneca Falls, N. Y.
London, Jeanette Fannie.....	206 Clinton Street.
McKay, Margaret Elliot.....	Wilmington, Del.
McKeighan, Elinor Matilda.....	St. Louis, Mo.
McKinney, Fanny Lee.....	Binghamton, N. Y.
MacDonald, Catherine.....	127 West 87th Street.
Mason, Kate Juliette.....	Cleveland, O.
Montell, Elizabeth.....	Baltimore, Md.
Odencrantz, Tulla Caroline.....	Houston, Tex.
Ott, Amelia Henrietta.....	1972 Third Avenue.
Potter, Ella Hatch.....	Geneva, N. Y.
Potter, Mary A.....	Easton, N. Y.
Powell, Lucy Lee.....	Staunton, Va.
Riblet, Mary Varian.....	343 East 68th Street.
Rodman, Henrietta.....	Astoria, N. Y.
Ryland, Marion Garnett.....	Richmond, Va.
Schwerin, Nettie Picard (Mrs. N. P. Schwerin).....	100 West 80th Street.
Seaton, Grace Maria.....	Richfield Springs, N. Y.
Seniza, Francisca Catherine.....	Hoboken, N. J.
Springer, Eva.....	East Las Vegas, N. M.

# 110 STUDENTS FROM COLUMBIA UNIVERSITY

Stackpole, Caroline Emmaretta.....	Plattsburgh, N. Y.
Steele, Minnie Louise.....	251 West 97th Street.
Streeter, Stella Georgiana.....	Cummington, Mass.
Swan, Evelyn.....	68 West 96th Street.
Turner, Jessica Knapp.....	Addison, N. Y.
Warner, Elizabeth Hayward.....	56 West 33d Street.
Wells, Florence Ada.....	Racine, Wis.
Teachers College Students.....	45.

## STUDENTS FROM COLUMBIA UNIVERSITY

Alsberg, Elsa.....	40 West 94th Street.
Andrews, Gertrude.....	Newark, N. J.
Baldwin, Sarah Lilian.....	West Orange, N. J.
Ball, Margaret Elizabeth.....	Passaic, N. J.
Berg, Clara de Lissa.....	52 West 83d Street.
Brackett, Mary Morrell.....	604 West 115th Street.
Carroll, Sarah Maude.....	Lynchburg, Va.
Chandor, Laura Valentine.....	29 East 61st Street.
Coe, Miriam Storrs.....	42 West 52d Street.
Colter, Mary Culbertson.....	Meadville, Pa.
Conant, Sarah Howard.....	North Thetford, Vt.
Craighead, Ethel.....	Flushing, N. Y.
Craine, Winifred Roosa.....	Detroit, Mich.
Cushing, Mary Gertrude.....	419 West 118th Street.
Dederer, Pauline Hamilton.....	603 West 113th Street.
French, Helen Topping.....	150 Macon St., Brooklyn.
Frost, Mary Kennedy (Mrs. M. K. Frost).....	419 West 118th Street.
Gunning, Marcella.....	511 West 112th Street.
Hackedorn, Marion.....	Galion, O.
Harrison, Anna E.....	Topeka, Kan.
Hellmuth, Louise.....	Berkeley, Cal.
Hempstead, Louise.....	Meadville, Pa.
Henry, Florence French.....	Cortland, N. Y.
Hurlburt, Mary Frelinghuysen.....	18 West 103d Street.
Jackson, Katherine.....	London, Ky.
Johnson, Adele Remsen.....	168 Hancock St., Brooklyn.
Lauder, Mary Agnes.....	594 St. Mark's Ave., Brooklyn.
Loshe, Lillie Deming.....	Stamford, Conn.
Mead, Belle L.....	Greenwich, Conn.
Merritt, Mary Schory.....	Lancaster, O.
Norsworthy, Naomi.....	234 West 122d Street.
Pappenheimer, Minnie.....	478 Central Park West.
Putnam, Bertha Haven.....	335 West 86th Street.
Reed, Emma Louisa.....	141 West 4th Street.
Roderick, Stella Virginia.....	Galion, O.
Seligsberg, Alice Lillie.....	1034 Park Avenue.
Seward, Annie Ledelle.....	East Orange, N. J.



Smith, Tirzah Snell.....	68 East 77th Street.
Stimson, Julia Catherine.....	159 West 86th Street.
Verhoeff, Mary.....	Louisville, Ky.
Wood, Alice Ida.....	Bound Brook, N. J.
University Students.....	41.

### Recipients of the Degree of Bachelor of Arts in June 1902

Elizabeth Allen	Mary Hedges Fisher
Georgetta Platt Aller	Mary Dederick Hall
Elsa Alsberg	Eleanore Harrison Hunt
Katharine Armstrong	Edith May Ingalls
Frances Elinor Belcher	Viola Louise Kimball
Elsa Gubner Bergen	Sue Life LaMonte
Frances Campbell Berkeley	Janet Alexander McCook
Grace Edith Boote	Annie Pickrell McKenney
Jessie Louise Brown	Ernestine Julia Molwitz
Mary Hunt Budd	Martha Wickham Moore
Harriet Wright Burton	Alice Naumburg
Elsa Patterson Campbell	Ada Blanche Clouse Neiswender
Lydia Adèle Carll	Ethel Leone Newman
Edna Cara Chapin	Grace Malvina Peters
Margaret Elizabeth Clark	Eleanor Phelps
Elizabeth Cadmus Coddington	Alma Rosenstein
Clara Coburn Cook	Jeannette Rowland Seibert
Grace Lucille De Hart	Annie Ledelle Seward
Rebecca Staunton Donald	Mary Carolyn Shaen
Edith Durant	Carita Spencer
Eva Olive Dutcher	Elsie Lloyd Totten
Ruth Earle	Louise Matilda Trimble
Margaret Grote Elliman	Eleanor Elizabeth Van Cott
Helen Adelaide Fairchild	Alice Marion Waugh
Elizabeth Finnigan	Una Adèle Winterburn

### Recipients of Prizes and Honors in June 1902

#### Kohn Mathematical Prize

Elsa Patterson Campbell

#### Herrman Botanical Prize

Elsbeth Kroeber

### Departmental Honors

#### Sophomore Honors

*English:* Charlotte Elizabeth Morgan

*German:* { Ida Ethel Lewis  
Hilma Leers  
Alida Margaret Van Slyke

*Mathematics:* { Georgina Grace Bennett  
Mabel Denton  
Anna Sarah Tattershall

Junior Honors

History: Helen Louise Cohen

Final Honors

Classics: Ada Blanche Clouse Neiswender

Mathematics: { Elsa Patterson Campbell  
Grace Melvina Peters

Philosophy: Janet Alexander McCook

Holders of Competitive Scholarships, Class of 1906

Trustees' Competitive Scholar

Alice Dorothy Brewster

Brooklyn Scholars

Mabel Emma Browne

Faith de la Tour Chipperfield

Jessie Kaufmann Scholar

Rosa Fried

STATISTICS

The following tabular statement indicates the growth of the College from its foundation:

	1889 to 1890	1890 to 1891	1891 to 1892	1892 to 1893	1893 to 1894	1894 to 1895	1895 to 1896	1896 to 1897	1897 to 1898	1898 to 1899	1899 to 1900	1900 to 1901	1901 to 1902	1902 to 1903
UNDERGRADUATES:														
Seniors. . . . .	..	..	..	8	7	9	18	21	22	24	40	51	51	50
Juniors . . . . .	..	..	7	7	9	18	21	22	23	24	40	39	48	74
Sophomores . . . . .	..	8	7	10	20	18	22	21	28	38	37	51	72	78
Freshmen (regular). . .	4	7	16	26	23	26	20	21	38	45	54	81	98	92
" (partly regular)	10	4	..	..	..	..	..	..	..	..	..	..	..	..
	14	19	30	51	59	71	81	85	111	131	171	223	269	294
GRADUATE STUDENTS.	..	12	5	5	18	19	33	49	58	75	82	..	..	..
SPECIAL STUDENTS.	..	..	..	..	..	..	..	45	38	28	21	41	27	36
Botany . . . . .	12	17	22	30	22	26	19	..	..	..	..	..	..	..
Chemistry . . . . .	10	5	5	5	7	3	3	..	..	..	..	..	..	..
Political Science. . . .	..	..	..	..	..	..	11	..	..	..	..	..	..	..
MUSIC STUDENTS.	..	..	..	..	..	..	..	24	20	37	41	37	43	29
STUDENTS FROM TEACH- ERS COLLEGE.	..	..	..	..	..	..	..	..	7	8	18	54	47	45
STUDENTS FROM COLUM- BIA UNIVERSITY.	..	..	..	..	..	..	..	..	..	..	..	29	45	41
	22	34	32	37	47	48	66	118	123	148	162	161	162	151
TOTAL REGISTRATION.	36	53	62	88	106	119	147	203	234	279	333	384	431	445
DEGREES CONFERRED.														
A. B. . . . .	..	..	..	8	7	8	18	22	22	21	39	50	50	..
A. M. . . . .	..	..	..	..	2	1	9	11	11	16	18	..	..	..
Ph. D. . . . .	..	..	..	..	..	1	..	..	2	2	1	..	..	..

## APPENDIX

### AGREEMENT BETWEEN THE TRUSTEES OF COLUMBIA COLLEGE IN THE CITY OF NEW YORK AND BARNARD COLLEGE, NEW YORK CITY.

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THIS AGREEMENT, made the nineteenth of January, 1900, between

THE TRUSTEES OF COLUMBIA COLLEGE IN THE CITY OF NEW YORK, and  
BARNARD COLLEGE (hereinafter referred to respectively as "Columbia  
University" or "the University," and "Barnard College").

WITNESSETH :

For the purpose of incorporating Barnard College, a college for  
women, in the educational system of the University, it is mutually  
covenanted and agreed :

FIRST. That the President of the University shall be, *ex officio*, Presi-  
dent of Barnard College, and if not already a Trustee of Barnard  
College he shall be so elected at the earliest opportunity. He shall pre-  
side at the meetings of the Faculty of Barnard College and shall have  
general supervision and direction of the educational administration of  
such College as in the other schools of the University.

SECOND. That the internal administration of Barnard College shall be  
conducted by a Dean who shall be appointed by the President of the Uni-  
versity, by and with the advice and consent of the Trustees of Barnard  
College. In the absence of the Dean, an Acting Dean may be appointed  
by the President.

THIRD. That Barnard College shall be represented in the University  
Council of Columbia University by its Dean who shall have the right  
to vote in the University Council upon all questions. The Faculty of  
Barnard College shall consist of the President, the Dean, and all the  
professors on the staff of the University who give instruction in Barnard  
College. Whenever Barnard College shall maintain ten or more pro-  
fessors in its Faculty it shall be entitled to a representative in the  
Council additional to the Dean.

FOURTH. That Barnard College shall provide for, support and main-  
tain such officers of instruction as may, from time to time, be agreed on,  
as follows, to wit :

They shall be nominated by the Dean of Barnard College, with the  
approval of the Trustees of Barnard College and of the President of the  
University, and shall be appointed and reappointed by the University  
according to its custom. Their standing shall be the same in all respects  
as that of other like officers in the University—For all services rendered



in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

Members of the Faculty of Barnard College may be either men or women.

In the month of January in each year, or at such other time as may be mutually agreed upon, the Dean of Barnard College, with the approval of the Trustees of Barnard College, and after conference with the heads of Departments in such College, shall submit to the President of the University a statement, showing:

*First.* The estimated number of the students in each class at Barnard College for whom instruction is to be provided during the next academic year.

*Second.* The number and grade of officers of instruction, and amount of service desired in each subject.

Such statement shall be subject to the approval and revision of the President, upon all questions not reserved by this agreement to the Trustees or Dean of Barnard College.

FIFTH. That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College, except that courses open to Seniors of Columbia College which are counted towards a Teachers College diploma shall continue to be open to Seniors in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the Senior year, other than the courses leading towards a Teachers College diploma, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, as hereinbefore provided, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

SIXTH. That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that

degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

SEVENTH. That, so long as this Agreement is in force, Barnard College shall grant no degree. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this Agreement. But this Agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

EIGHTH. That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof; it being distinctly understood and agreed that the University is and shall be under no implied obligation, responsibility, or liability, of any kind whatsoever, for the maintenance, support, direction, or management of Barnard College, or for the disbursement of the income thereof, except as stated in Section 4 of this Agreement; and that all and every such obligation or liability shall be strictly limited to the duties and obligations expressly and in terms assumed and agreed to by the University.

NINTH. That for each student of Barnard College pursuing courses in the University in the Senior year leading to a degree, Barnard College shall pay the University at the rate of \$10 an hour per week throughout the year, with a maximum fee of \$120 a year for any one student.

TENTH. That the libraries of the University and of Barnard College shall be open upon equal terms to all women students of the University and of Barnard College.

ELEVENTH. This Agreement may be modified at any time by mutual consent expressed in writing, and may be terminated at the end of any academic year, after one year's notice in writing from either party to the other.

TWELFTH. This Agreement shall take effect immediately.

## INDEX

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- Academic Calendar, 98  
Administration, Officers of, 6  
Admission, Committee on, 6  
    Requirements for, 10  
    to Advanced Standing, 18  
Advanced Standing, Admission to, 18  
Agreement between Barnard College  
    and Columbia University, 113  
Anthropology, Courses in, 51  
Appendix, 113  
Application for Entrance Examination,  
    12  
    Admission to Advanced  
    Standing, 18  
Associate Members (Board of Trustees), ix  
Astronomy, Courses in, 52  
Attendance, Scheme of, 83-84  
Barnard, Anna E., Scholarship, 87  
Barnard College, Agreement between,  
    and Columbia University,  
    113  
    Relation of, to Columbia  
    University, 7  
Biology. *See* Zoölogy  
Botanical Prize, Herrman, 89  
Botany, Courses in, 52  
    Entrance Requirement in, 20  
    Laboratory Fees, 41, 52  
Brearley School, Scholarship, 88  
Brooklyn Scholarships, 86  
Brooks, Arthur, Fund, 88  
Buildings and Grounds, Committee on,  
    viii  
    Plan of, iv  
Bunner Medal, 89  
Calendar, Academic, 98  
Certificates in lieu of Entrance Examination,  
    17  
Chapel Service, 97  
Chemistry, Courses in, 54  
    Entrance Requirements in, 31  
    Laboratory Fees, 41, 54  
Chisholm, Eliza Taylor, Memorial  
    Scholarship, 88  
Clarkson, Jennie B., Scholarship, 87  
Columbia University, Agreement between  
    Barnard College and,  
    113  
    Relation of Barnard College  
    to, 7  
Committee (Faculty) on Admission, 6  
    Curriculum and Scheme  
    of Attendance, 6  
    Honors, 6  
    Scholarships, 6  
Committee (Trustees) on Buildings  
    and Grounds, viii  
    Education, viii  
    Finance, viii  
    Scholarships, 87  
Conditions, Entrance, 16  
Contents, Table of, v  
Course of Study, 43  
Courses of Instruction. *See* Departmental  
    Statements  
Curriculum and Scheme of Attendance,  
    Committee on, 6  
Deficiency, Proficiency and, 47  
Definitions of Entrance Requirements,  
    20  
Degree, Recipients of A.B., in 1902,  
    111  
Departmental Honors, 90  
    Statements, 51  
Diploma, Regents' Academic, 17  
Diplomas, Teachers College, 46  
Dismissal, Honorable, 50  
Division of Entrance Examinations,  
    13  
Dormitory, 42  
Economics, Courses in, 55  
Education, Committee on, viii  
    Courses in, 57  
Elective Studies, 44  
English, Courses in, 62  
    Entrance Requirement in, 23  
Enrolment, Matriculation, Registration,  
    and, 40  
Entrance Conditions, 16  
    Examinations, 11  
    Application for, 12  
    Certificates in lieu of, 17  
    Definitions of Requirements,  
    20  
    Division of, 13  
    Fee, 13  
    Places of, 14



- Report of, 16
- Schedule of, 14
- Examination Fee, Entrance, 13
  - Final, 42
  - Special, 42
- Examinations, Entrance. *See* Entrance Examinations
- Examinations, Deficiency, 47
  - in Course, 46
  - Special, 47
- Expenses of Students, 42
- Faculty, 1
  - Committees of, 6
- Fees, 13, 41-42
  - for Examinations
    - Entrance, 13
    - Final, 42
    - Special, 42
  - Laboratory, 41
  - Matriculation, 41
  - Payment of, 42
  - Tuition, 41
    - Regular Students, 41
    - Special Students, 41
- Final Examination Fee, 42
- Final Honors, 93
- Finance, Committee on, viii
- Finance. *See* Economics
- Fiske Scholarship Fund, 88
- Founders, x
- French, Courses in, 78
  - Entrance Requirements in, 25
- Fund, Arthur Brooks, 88
  - Fiske Scholarship, 88
- General Honors, 90
- Geography, Courses in, 64
  - Laboratory Fees, 41, 64
- Geology, Courses in, 65
- German, Courses in, 65
  - Entrance Requirements in, 28
- Germanic Languages and Literatures,
  - Courses in, 65
  - Philology, Course in, 68
- Gothic, Courses in, 68
- Graduation Theses, 45
- Graham School Scholarship, 88
- Greek, Courses in, 68
  - Entrance Requirements in, 31
- Herrman Botanical Prize, 89
- History, Courses in, 69
  - Entrance Requirements in, 32
- Honorable Dismissal, 50
  - Committee on, 6
- Honors, Departmental, 90
  - General, 90
  - Recipients of Prizes and, in 1902, 111
- Instruction, Courses of, 51
  - Officers of, 2
- Italian, Courses in, 80
- Junior Honors, 92
- Kaufmann, Jessie, Scholarship, 86
- Kohn Mathematical Prize, 89
- Laboratory Fees, 41
  - Botany, 41, 52
  - Chemistry, 41, 54
  - Geography, 41, 64
  - Zoölogy, 41, 81
- Latin, Courses in, 71
  - Entrance Requirements in, 34
- Library, University, 96
- McLean, Mrs. Donald, Scholarship, 88
- Mathematics, Courses in, 72
  - Entrance Requirements in, 35
- Mathematical Prize, Kohn, 89
- Matriculation, Registration and Enrolment, 40
  - Fee, 41
- Mechanics, Courses in, 74
- Medal, Bunner, 89
- Music, Courses in, 74
  - Students of, 20
- Officers of Administration, 6
  - of Instruction, 2
- Payment of Fees, 42
- Philology, Course in Germanic, 68
  - in Romance, 81
- Philosophy, Courses in, 75
- Physics, Courses in, 77
  - Entrance Requirements in, 36
- Physiography, Entrance Requirement in, 37
- Physiology. *See* Zoölogy
- Places of Entrance Examinations, 14
- Plan of Buildings and Grounds, iv
- Political Economy. *See* Economics
- Prescribed Studies, 43
- Prizes, Herrman Botanical, 89
  - Kohn Mathematical, 89
  - Recipients of, and Honors in 1902, 111
- Probation, 49
- Proficiency and Deficiency, 47
- Psychology, Courses in, 76
- Public Worship. *See* Chapel Service
- Pulitzer, Lucille, Scholarships, 86
- Recipients of A. B. Degree in 1902, 111
  - of Prizes and Honors, in 1902, 111
- Regents' Academic Diploma, 17
- Register of Students, 101
- Registration and Enrolment, Matriculation, 40
- Relation of Barnard College to Columbia University, 7
- Report of Entrance Examinations, 16

- Requirements, Definitions of Entrance, 20
- Requirements for Admission, 10
- Rhetoric and English Composition.  
    *See* English
- Romance Languages and Literatures,  
    Courses in, 78  
    Philology, Course in, 81
- Scandinavian, Courses in, 67
- Schedule of Entrance Examinations,  
    14
- Scheme of Attendance, 83-84
- Scholars, Class of 1906, 112
- Scholarship Funds, 88  
    Arthur Brooks, 88  
    Fiske, 88
- Scholarships, Committee on (Faculty),  
    6  
    (Trustees), 87
- Scholarships, 85  
    Competitive, 85  
        Brooklyn, 86  
        Kaufmann, 86  
        Pulitzer, 86  
        Trustees, 86  
    Non-competitive, 87  
        Barnard, 87  
        Brearley, 88  
        Chisholm, 88  
        Clarkson, 87  
        Graham, 88  
        McLean, 88
- Smith, 87
- Student, 87
- Veltin, 87
- Weed, 87
- Smith, Emily James, Scholarship, 87
- Sociology, Courses in, 56
- Sophomore Honors, 90
- Spanish, Courses in, 80  
    Entrance Requirement in, 37
- Special Examination Fee, 42
- Students, 19
- Statistics, 112
- Student Scholarships, 87
- Students, Expenses of, 42  
    Register of, 101
- Study, Course of, 43
- Table of Contents, v
- Teachers College, 9  
    Diplomas, 46
- Theses, Graduation, 45
- Treasurer, vii
- Trustees, vii  
    Committees, viii  
    Competitive Scholarship, 86
- Tuition fees, 41
- Veltin School Scholarship, 87
- Weed, Ella, Scholarship, 87
- Withdrawal, 41
- Zoölogy, Courses in, 81  
    Entrance Requirement in, 38  
    Laboratory Fees, 41, 81











